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# CUTLER & DOWNING NURSERIES

BENTON HARBOR, MICHIGAN



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### Table Showing Number of Trees or Plants to the Acre

Distance	No. of Trees	Distance	No. of Trees
1 foot apart each way.....	43,560	13 feet apart each way.....	257
2 feet apart each way.....	10,890	14 feet apart each way.....	222
3 feet apart each way.....	4,840	15 feet apart each way.....	193
4 feet apart each way.....	2,702	16 feet apart each way.....	170
5 feet apart each way.....	1,742	17 feet apart each way.....	150
6 feet apart each way.....	1,210	18 feet apart each way.....	134
7 feet apart each way.....	888	19 feet apart each way.....	120
8 feet apart each way.....	680	20 feet apart each way.....	108
9 feet apart each way.....	537	25 feet apart each way.....	69
10 feet apart each way.....	434	30 feet apart each way.....	48
11 feet apart each way.....	360	35 feet apart each way.....	35
12 feet apart each way.....	302	40 feet apart each way.....	28

**RULE**—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill, which, divided into the number of feet in an acre (43,560), will give the number of plants or trees to the acre.

### Suitable Distances for Planting

Apples Standard .....	30 to 40 feet	Grapes .....	8 to 10 feet
Apples, Dwarf .....	8 to 10 feet	Currants .....	3 to 4 feet
Pears, Standard .....	18 to 20 feet	Gooseberries .....	3 to 4 feet
Pears, Dwarf .....	10 feet	Raspberries, Red .....	3 to 4 feet
Peaches .....	16 to 18 feet	Raspberries, Black .....	4 to 5 feet
Nectarines and Apricots.....	16 to 18 feet	Blackberries .....	5 to 7 feet
Cherries, Sweet .....	18 to 20 feet	Strawberries, rows .....	1 by 3½ feet
Cherries, Sour .....	15 to 18 feet	Strawberries, in beds.....	1½ by 1½ feet
Plums .....	16 to 20 feet	Asparagus, in beds.....	1 by 1½ feet
Quinces .....	10 to 12 feet	Asparagus, in field.....	1 by 3 feet

### Guarantee of Genuineness

While we exercise the greatest diligence and care to have all our trees, etc., true to label, and hold ourselves in readiness on proper proof to replace all trees, etc., that may prove untrue to label free of charge, or refund the amount paid, it is mutually understood and agreed to between the purchaser and ourselves that our guarantee of genuineness shall in no case make us liable for any sums greater than that originally received for said trees, etc., that prove untrue.

# General Instructions for Transplanting and Managing Fruit Trees

**1. PREPARING THE GROUND**—Before planting fruit trees the soil (except new ground), should be made mellow by repeated plowing, and where the soil is densely packed, a subsoil plow should be used and the ground stirred up from twelve to fifteen inches deep. If this is neglected the roots are soon surrounded by an almost impenetrable wall and cannot be expected to live many years. Whenever this system has been practiced, healthy and vigorous trees and fine fruit have been the result.

**2. RECEIVING AND CARING FOR TREES**—Trees are frequently ruined through the lack of care or bad management after they fall into the hands of the purchaser. When trees are received the roots should be covered with a blanket, sack or straw until they reach their destination. The bundle should then be opened and the trees separated from the moss in which they are packed. If the roots have become dry from long exposure, straw should be spread upon the ground, the trees laid on it, then covered entirely (roots and tops) with straw and the whole well watered. If holes are not yet dug or the ground too wet to plant when the trees are received, dig a trench and lay the trees in a slanting position, so that you can cover up the roots and two-thirds of the body or stalk. In this position let them remain until the holes are dug or the ground in a suitable condition to receive them.

**3. DIGGING THE HOLES**—If the soil for an orchard has been properly prepared by subsoiling and deep plowing, then the opening of the holes becomes a very simple matter, and really this is by far the easiest, cheapest and best plan; for if the soil is thoroughly pulverized to a depth of from twelve to fourteen inches, all that is necessary is to measure off the distance at which the trees shall stand from one to another and the order of planting. Where only a few trees are to be planted and the soil has not been subsoiled, or where the trees are to be planted in sod, then the holes ought to be at least four feet wide and eighteen to twenty inches deep, the subsoil thrown back and the hole filled up to the proper depth with fine top soil, to receive the trees.

**4. PRUNING BEFORE PLANTING**—Both root and top should be pruned at time of planting and before the tree is set in the ground. First cut off the ends of the broken and bruised roots with a sharp knife, in a slanting direction on the under side. This will cause the wound to heal over readily, by throwing out plenty of fibrous roots at the end. Then cut back each branch or side limb to a bud not more than four to six inches from the body. Then cut back the leader or central limb so as to leave it about four to five inches above the highest side limb. When there are no side limbs the tree should be headed back to a height proper to form a top. None of the lower limbs should be cut off entirely, as it is best to form the heads as low as possible, so that the limbs and leaves will protect the trunk from the direct rays of the sun.

**5. DEPTH TO PLANT**—Immense numbers of trees are ruined by being planted too deep. Most kinds of fruit trees, except dwarf pears and plums on peach roots, should be planted not over two or three inches deeper than they grow in the nursery row. Dwarf pears and plums on peach roots should be set so that the joint where the body and roots are united will be about four inches below the top of the ground. By this means roots will be thrown out from the body that is covered and larger and longer lived trees secured.

**6. PLANTING**—When ready to plant take from the trench a few trees at a time; place the tree in position and arrange it to the proper depth by filling in or raking back the soil to or from where the tree will stand; then fill in the fine mellow soil between and around the roots with the hand, arranging the roots in their natural position and packing the soil carefully around them. When the roots are barely covered, sprinkle on water to moisten the soil and settle it among the roots; then fill to the top, press the earth very firm around the tree with the foot as you fill in. Throw a bucket of water around each tree to settle the ground, and scatter a little soil on to prevent baking.

**7. MULCHING**—Mulching prevents the moisture from escaping and maintains equitable temperature about the roots. The material used may be long manure, litter, straw, grass or hay, which should be spread on the surface around the tree for a space of four or five feet, and three to six inches deep. Bearing trees may be benefitted by mulching heavily in winter, which will tend to prevent an early development of fruit buds and assist them to escape the effect of late frosts.

**8. AFTER CULTURE**—The tree should be kept free from grass and weeds, and no crops should be grown in the orchard while the trees are young, except such as can be cultivated with the plow or hoe. Cultivate well in the spring and summer.

**9. AFTER PRUNING**—The great majority of people do not take proper care of their trees after planting. This is a great mistake. If a tree or vine does not receive the right kind of care and enough of it when young, it will never attain a healthy old age. Very much has been said about pruning by various authors. Judging these and our own experience and observation, we would say: The best time to prune fruit trees, and about all kinds of trees and shrubs, is during May and June, May preferred; but be governed by the health and vigor of the tree. We do not advise severe pruning, as too much would injure the tree. Keep all superfluous forks and limbs cut off and the heads in proper shape to admit air and sunshine as long as the tree lives. Currants and Gooseberries should be trimmed late in the fall or early in the spring, before commencing to grow; Grape vines late in November or any time during the winter up to March 1st; after this trimming is apt to excite bleeding or flowing of sap from the

wounds. If desirous of getting rubbish removed from the orchard during the winter, cut limbs off eight to ten inches from the body and cut balance off during May or June following.

**10. STANDARD APPLE TREES**—May be planted twenty-five to thirty-three feet apart. We advise planting the rows thirty-three by sixteen and one-half feet apart; it is better to plant the close way north and south. When the trees attain age and begin to crowd, cut out every other tree. Those left will be in better condition and the others will have borne six or eight crops of fruit. Low heads are preferred, so as to protect the trunk from the direct rays of the sun. Cultivate as directed and do not neglect to mulch them, especially young trees.

**11. CRAB APPLES**—Should be planted twenty-five feet apart. They are very hardy and bear young and abundantly. The fruit is highly valuable for preserves and jelly and makes the finest cider known. Plant and cultivate same as an apple.

**12. STANDARD PEARS**—Should be planted fifteen to twenty feet apart. They are grown on stock imported from France and will grow on almost any soil, provided the subsoil is not too wet; whenever this is the case, the ground should be thoroughly underdrained. The best results are obtained from pears on a clay slope where the soil is poor.

**13. STANDARD CHERRIES**—Should be planted fifteen to twenty feet apart. The soil best adapted to the Cherry is a light loam and a gravelly or sandy subsoil, though it will do well in almost any situation not too wet. To insure a good growth, Cherries should be well cut back for several successive seasons. Plant as directed and mulch well in the spring.

**14. PLUMS**—Should be planted ten to fifteen feet apart, in clusters, as so planting assures more complete fertilization of the blossoms, thereby giving the fullest returns of the most delicious fruit. Plums should have rich soil, which should be kept well cultivated.

**15. PEACHES**—Should be planted  $16\frac{1}{2}$  by  $16\frac{1}{2}$  feet apart. To secure healthy, vigorous and fruitful trees and fine fruit, the following points must be well attended to: First—Keep the ground clean and mellow. Second—Keep the heads low—the trunks should not exceed three feet in height. Third—Give them an occasional dressing with wood ashes. Fourth—Prune every spring, shortening the shoots of the previous year's growth; this keeps the head round, full and well furnished with bearing wood. Cut weak shoots back about one-half, and strong ones one-third; but see that there is left a sufficient supply of fruit buds. Sickly and superfluous shoots should be cut out clean. The fruit borne on wood of last year's growth and hence the necessity of keeping up a good supply of vigorous annual shoots all over the tree. Salt is an excellent fertilizer for peach trees; soap suds is also good. Young trees should be well mulched every spring, or kept well cultivated until about the middle of July each year. Would advise planting a good windbreak on south side of orchard.

**16. APRICOTS AND NECTARINES**—Should be planted fifteen feet apart, and need the same management, culture and training as the peach.

**17. CURRENTS AND GOOSEBERRIES**—Should be planted in the garden four feet apart; sawdust and tan barks should be used as a mulch. The currant flourishes in almost any kind of soil, but to have the fruit in perfection, plant in rich, deep soil, and give good annual pruning and cultivation. When plants are grown as stools or bushes, the older and feeble suckers should be cut out and the stem and root kept free from suckers.

**18. RASPBERRIES**—Should be planted four feet apart each way or rows five feet apart and three feet apart in row in a deep rich soil—one that will retain moisture well in drouth. In training allow only a few canes to grow from each plant, cutting away all suckers to throw the strength into the stalk for bearing; all old canes should be removed immediately after the fruit is all picked.

**19. BLACKBERRIES**—Require the same kind of soil and treatment as Raspberries, except that they should be planted in rows; eight feet wide and four feet apart in the row. A neat and improved method of pruning will make the plants self-sustaining bushes, viz: as soon as the plants are about four feet high, clip off the points of the growing cane and repeat the operation several times, until they assume the form of a bush. If not pruned in this manner they require to be tied to a stake or wire trellis. Mulching is of great advantage to both Raspberries and Blackberries.

**20. GRAPES**—If planted for fastening to a trellis or arbor, should be eight feet apart; if tied to stakes, six feet apart. The holes should be dug not less than four feet wide and two feet deep. Burying bones under the roots make the vines more prolific and the fruit of better quality. The bones should be put in the bottom of the hole and covered with fine soil, then pour on a little water to settle the dirt among the bones; then fill up with mellow soil to within five or six inches of the top; cut off the bruised and broken roots; straighten the roots to their natural position and cover them with fine mellow soil about two inches, packing it carefully with the hand; then sprinkle on sufficient water to moisten the roots, fill up the hole and press the dirt very firm as you fill in. A stake should be placed with each vine at the time of setting, six to seven feet high. The first year train one shoot only up to the stake; pinch off all the others and also all lateral or side shoots that appear during the first season; cut the vine down to within three or four buds of the ground. The following season train up two shoots in the same manner. It is advisable to remove most varieties from trellis and cover with dirt during the winter.

**21. STRAWBERRIES**—The ground should be prepared the same as for the other crops; if not already rich, make it so by manuring. Mark out the rows the desired width and set plants

twelve to seventeen inches in rows; if set twelve inches in rows four feet apart, an acre will require 10,890 plants—same as if sixteen inches in rows three feet apart. Keep in rows and cultivate. A new bed should be planted every two or three years. In the early winter, when the ground is frozen, cover the whole with long straw, which should be partially removed from the row in the spring, but enough allowed to remain on the ground as mulch to keep the berries clean the following summer. When the plants are moved in the fall, they should be left until September. If taken up too early the plants are not as likely to live, as the roots are soft and spongy and will not bear exposure so well as after they have matured and ripened.

**22. WINTERING TREES WHEN PROCURED IN THE FALL**—Procuring trees in the autumn for early spring planting is recommended, when the purchaser is not prepared to plant in the fall or prefers spring setting, or where the winters are too severe to set out young trees and plants in the fall. The greatest advantages derived in doing so are that when the roots have been cut or pruned it will be found upon taking them up in the spring, that a callous has been formed, ready for the producing of new rootlets, and the trees being planted without much exposure as soon as the frost is out of the ground, will become thoroughly established the first season, and should make twice the growth of late planted trees, and the labor of planting is done before the rush of spring work sets in. To insure success select a dry spot of ground where water will not stand during winter and no grass or litter that will invite mice. Dig a trench from three to four feet wide, according to the amount of trees to be heeled in, and deep enough to admit one layer of roots and sloping enough to let the trees lie at an angle of about 30 degrees, throwing the earth on the back part of the trenches so as to make a more perfect slope on which to lay down the trees. Put in one layer of trees, placing the roots as close together as can conveniently be done; cover them well with pulverized, moist soil, well up on the bodies and see that it is carefully worked in about the roots as if they were being planted; then add another layer of trees, overlapping the first, and continue as at first until all are heeled in, throw in the ground well up around the branches with about six inches of dirt on the tops, covering the trees entirely up with the earth. The roots should be pruned before laying them down in the fall.

Peach trees and apricot trees should be mounded up every winter and allowed to remain a little later in the spring to insure full crops and protect them from late frosts.

## Insects and Fungus Enemies of Fruit, Trees and Plants

Only a few years ago little or nothing was known about fungus diseases, and almost nothing about the insects that trouble the fruit grower. But we know now the life history of all the common insects, as well as the fungus diseases, and know how to combat them at each stage of their life. It is only necessary to follow directions, and be prompt and thorough, to insure success. A man will spend weeks cultivating his corn field, that will barely yield a crop to cover the labor, and begrudge a week's time to his fruit, that will yield him returns running into hundreds of dollars in profit per acre. We give below some general directions for spraying and caring for fruit, that, if followed, will insure success.

**Insects**—There are some insects that escape our attention entirely, unless we look closely. Among these are the gnats, mites, scale-lice and the ordinary plant-lice. These are all insects that live by sucking the sap of the plant for food, and have to be combated with some mixture that dries on them, stopping up their breathing pores, which are arranged along their sides, or else by their caustic action eats away their tissues and destroys them. They have a great many natural enemies. Among them are the Ichneumon Flies—a fly looking much like a tiny wasp, and the Lady Bug. The insects that eat the leaves for food, such as the Potato Bug, the Apple Tree Tent-Caterpillar, etc., are killed by poisoning their food, and some form of arsenic has been found best for this purpose.

**Fungus**—Fungus is a plant—a parasite plant—living by throwing its roots in the tissues of the plant on which it lives, and appropriating its sap. It grows very rapidly when once started, and, as it is beneath the skin of the leaf or bark during the greater part of its life, if once started it is hard to stop, so that to be successfully combated work must be begun before any signs of the fungus appear. Usually fungus shows itself conspicuously only when it has gone to seed. Its seeds are called spores, and are transmitted from plant to plant by the wind. To the naked eye they appear like grains of very fine dust.

**Formulas**—Note.—Wherever lime is called for in the following mixtures, it is to be weighed before slaking, then slaked and the creamy white wash, after straining to remove lumps, added to the solution.

**Formula 1, Paris Green.** Paris Green, 3 ozs.; lime, 1 lb.; water, 1 barrel. Keep well stirred.

**Formula 2, White Arsenic Solution.** This is to take the place of Paris Green, and is very much cheaper, cost-

ing about 4 cents per barrel. Boil 2 pounds of white arsenic, with 8 pounds of sal soda (common washing soda) in 8 qts. water for 15 minutes, or till dissolved, leaving only a small muddy sediment at the bottom. Put this solution in a 2-gallon jug and label "Poison, stock material for spraying mixture."

Use one pint of this to a barrel of water. But this will burn the leaves and greatly injure the tree if lime is not added, so to each barrel of mixture add 2 pounds of lime.

**Formula 3, Bordeaux Mixture.** Copper sulphate, 4 pounds; lime, 3 pounds; water, one barrel. Dissolve the copper in a part of the water, slake the lime in another part, and mix, filling the barrel with water. Another way, and a better way where several barrels are to be made, is as follows: Make several bags of burlap or old sacking. Weigh 4 pounds of copper sulphate in each. Slake a bushel of lime in a barrel of water. Go to your druggist and get a cent's worth of ferro-cyanide of potassium, and get an extra label to paste on your bottle. Put this ferro-cyanide in a 1-ounce bottle, and fill it with water. It will all dissolve, or nearly all. Paste on your poison label, for it is very poisonous. To prepare the mixture: Fill a barrel nearly full of water, and hang a bag of copper in it, so that it does not rest on the bottom. If it rests on the bottom it will take a day or so to dissolve, while if you suspend it, it will dissolve in an hour. When copper is dissolved, stir up the barrel of lime and dip out enough adding it to the copper, till a drop of the ferro-cyanide solution does not turn brown when added to it. It is then neutral, and ready for use.

**Bordeaux Mixture** is for fungus diseases, and by adding Paris Green to it, or white arsenic solution, it can be made a remedy for both fungus and insects. Three ounces of Paris Green to the barrel is enough, or 1 pint of the stock solution of white arsenic. If the latter is used, 2 pounds more of lime must be added.

**Formula 4, Kerosene Emulsion.** Kerosene emulsion is made by adding 2 parts of kerosene to 1 part of a solution made by dissolving half a pound of hard soap in 1 gallon of boiling rain-water, and churning the mixture through a force pump with a rather small nozzle until the whole forms a creamy mass, that will thicken into a jelly-like substance on cooling. The soap solution should be hot when the kerosene is added, but of course must not be near a fire. The emulsion thus made is diluted before using with 9 to 20 parts of cold water.



The Jonathan is one of our very best apples

## Apples

The Apple is the first in importance of all fruits. It will thrive on nearly any well drained soil. Its period of ripening, unlike other fruits, extends nearly through the whole year. By making careful selection, a constant succession can be obtained. For family use there is no fruit that is more indispensable. No fruit is so healthful, and many physicians say that if a person would eat an apple a day they could dispense with doctor bills. Besides this, and just as important, is the fact that the average price on the market is steadily increasing and the immense demand for home consumption, foreign shipping, canning and evaporating assures high prices. The apple if given the same care and attention as other farm crops, will yield greater returns per acre. The following list we consider to be the best for general planting.

### Summer Apples

**Early Harvest**—Size medium, roundish, usually more or less oblate, smooth, bright straw color when ripe; flesh nearly white, flavor rather acid, fine. Season, July. Productive. Needs rich cultivation to be fine. It is good throughout the Northern States and Southwest.

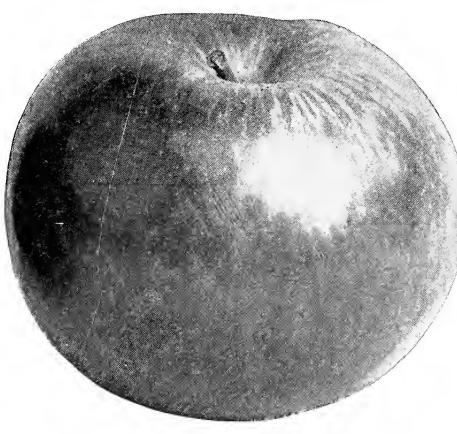
**Golden Sweet**—Medium or rather large, roundish, slightly flattened; greenish, becoming pale yellow; flesh very sweet, good, of moderate quality. The fruit is always fair, the tree a free grower, and very productive. Late summer. Tender for West; succeeds well Southwest.

**Red Astrachan**—Origin, Russia. Season, July. First imported into

England with White Astrachan from Sweden in 1816. Tree upright, spreading, vigorous growth; an early and abundant bearer. Fruit above medium, greenish-yellow, almost covered with mottled and striped crimson; flesh white, crisp, juicy, brisk acid; good.

**Sops of Wine**—Medium size, round ovate, dark red; flesh white, often stained red, moderately juicy, sub-acid, of good flavor. This variety is valuable for its free growth and fair fruit. Late summer.

**Sweet Bough**—Large roundish, remotely conical-ovate. Flesh white, very tender, with an excellent sweet flavor. Ripens from the middle to the end of summer. A moderate and regular bearer. Somewhat irregular, ascending. Tree round headed.



Duchess

**Tetofsky**—Origin, Russia. Season, July to August. One of the earliest apples to ripen in the Northern states, very popular on that account. Fruit small to medium; light yellow, striped and splashed with red; flesh white, tender, juicy; flavor sprightly sub-acid, aromatic, of extra good quality. Tree is stout and upright in growth, but apt to blight.

**Yellow Transparent**—(White Transparent, Thaler, etc.)—Origin, Russia. Season, July. Imported from St. Petersburg by United States Department of Agriculture. One of the most valuable early apples. Fruit medium, smooth, transparent skin; clear white, becoming pale yellow when fully ripe; flesh white, tender, fine grained, of splendid quality. Tree is moderately vigorous and a good annual bearer.



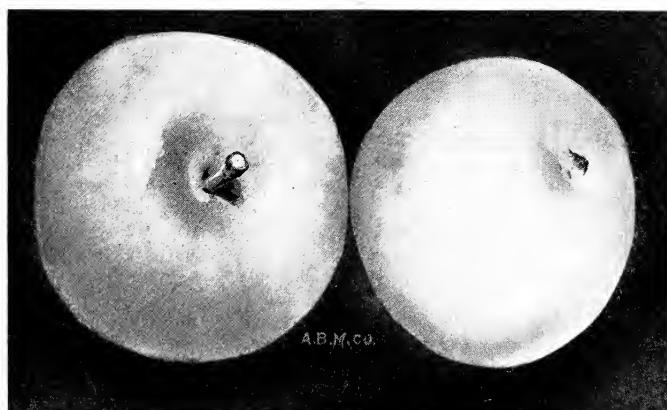
Red Astrachan

## Autumn Apples

**Autumn Strawberry**—Medium size, round, oval; flesh white, striped and splashed with red; tender, juicy and pleasant; bears young and abundantly. One of the best early autumn apples.

**Chenango Strawberry**—Rather large, oblong-conic, angular; striped and splashed with light crimson on whitish-yellow ground; cavity narrow and deep; basin narrow; flesh white, very tender, with a pleasant, mild, sub-acid flavor. September and October.

**Fall Pippin**—Large, beautiful yellow when fully ripe. Flesh tender, rich and of good quality. Tree hardy, vigorous and long-lived. September.



Yellow Transparent

**Duchess** (Duchess of Oldenburg)—Origin, Russia. Season, July and August. Tree upright, vigorous and extremely hardy. An early and annual bearer of uniformly large crops. Fruit large, greenish-yellow with red stripes. Flesh light yellow, medium fine grained, firm; flavor a pleasant acid; a great cooking favorite and prime market sort. A good shipper for an early apple and commands good prices. Should be planted in every orchard. The most profitable early apple for commercial purposes.

**Fameuse** (Snow Apple)—Origin, Canada. Season, October and November. An old and well known variety. Tree a moderate grower, productive. Fruit medium in size; color pale greenish-yellow, mixed with stripes of red, with splashes of same on shady side; flesh white, tender and juicy, slightly perfumed; flavor sub-acid, extra good. Very hardy; valuable variety for northern sections.

**Gravenstein**—Large; greenish yellow to orange yellow, with stripes of light and dark red; flesh yellowish, firm, moderately fine, crisp, moderately tender, juicy, sub-acid, aromatic; very good to best. Season, late September to early November.



McIntosh Apple

## AUTUMN APPLES—Continued.

**Longfield**—Origin, Russia. Trees hardy, vigorous, spreading, pendulous growth; an early annual bearer. Fruit medium, roundish, conical, unequalled; surface smooth, polished clear waxen yellow, with lively red blush; dots distinct, few, large, yellowish. Flesh very white, very tender and juicy, pleasant, brisk sub-acid; good. October and November.

**Maiden Blush**—Of uniformly good size, smooth, round, beautifully flushed with red on creamy yellow ground; flesh tender, of pleasant but not high flavor. A good market sort because of its attractiveness and also the heavy crops the trees bear. September and October.

**Rambo**—Size medium, oblate, smooth; streaked and marbled with dull yellowish red on pale yellowish ground; dots large, whitish; flesh tender, rich, mild sub-acid, fine flavored, often excellent. Late autumn and early winter.

**Wealthy**—Originated about 1861 by the late Peter M. Gideon, Excelsior, Minn. This one variety is an enduring monument for its originator. Season, September to January. Almost too well known to need description. Since its origination it has become extensively planted in all the apple growing states. Fruit large, regular, smooth, light yellow with crimson stripes and splashes; flesh white, often stained with red, tender, very juicy, sprightly sub-acid with delicious aroma. Splendid dessert and cooking apple. Market demand never supplied.

## Winter Apples

**Arkansas Black**—A remarkably handsome crimson-black apple; large, perfectly smooth, roundish flat, lightly dotted with white, the flesh is yellow, firm and fine grained, juicy and delicious; keeping late. December to April.

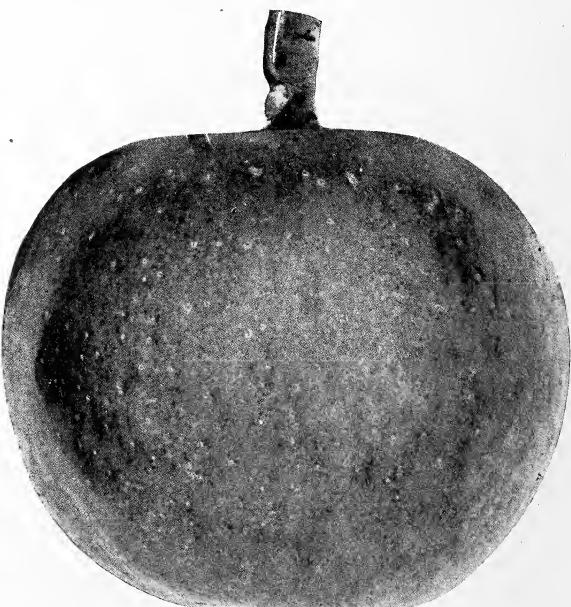
**Bailey Sweet**—Origin, New York. Season, October to November. An old choice variety. Has been fruited successfully as far north as Southern Minnesota and South Dakota. Fruit large, conical, irregular; greenish yellow with dull red stripes and russet dots; flesh yellow, moderately juicy, firm, sweet and very good.

**Baldwin**—Origin, Massachusetts. Season, December to March. The great commercial late winter keeper of the Eastern States. Tree a vigorous, open grower, upright in tendency and very productive where hardy. Fruit is large, roundish, deep red; flesh rich, crisp and juicy.

**Banana**—Fine, vigorous grower, large healthy foliage; early bearer. Fruit medium to large, smooth and handsome, golden yellow, usually shaded with red blush; flesh fine grained, rich, sub-acid, aromatic; highest quality. One of the best dessert apples. Valuable market variety in some sections. Originated in Indiana.

**Baxter**—Fruit large to very large, roundish, somewhat flattened at the base; skin is pale yellow, largely mottled and striped with bright red; flesh stained with red; firm, tender, moderately juicy and aromatic. Tree is productive, and a vigorous grower. November to January.

**Delicious**—Large, with surface almost covered with a most brilliant, beautiful dark red, blending to golden yellow at the blossom end. In quality it is unsurpassed. In flavor, it is sweet, slightly touched with acid, but only enough to make it all the more pleasing, with an aroma delightfully fragrant. Flesh fine grained, crisp, juicy, melting, and withal delicious. In keeping qualities it ranks with the best, coming out of storage in March and April, in perfect condition. It is one of the strongest, hardiest, most vigorous growers among apples.



Wealthy

**Gideon**—Medium to large; golden yellow, with bright blush; fine fleshed, juicy, sub-acid. Very hardy; bears early and profusely. November to January.

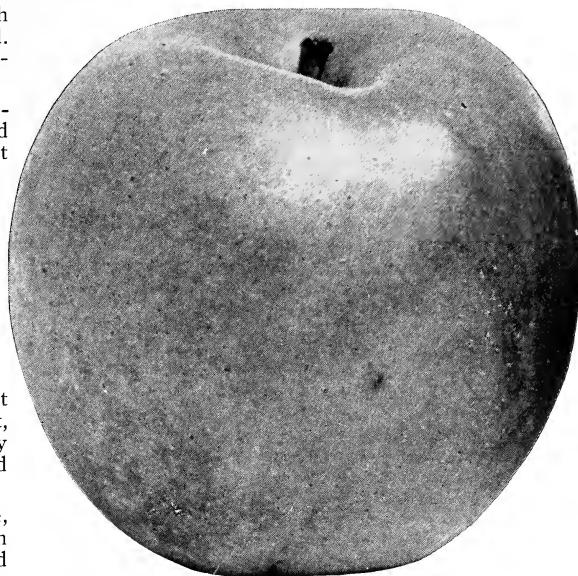
**Gano**—Originated in Missouri. Similar but superior to Ben Davis. It has all the good qualities in a higher degree, more brilliant coloring, runs more even in size, and keeps fully as late. Tree is vigorous and hardy; is a rapid grower; bears while young. Color bright red without stripes or blotches, and large and even in size. Season, February to March.

**Grimes Golden**—Origin, Virginia. Season, November to January. Tree vigorous, upright, spreading, and a good early annual bearer. Fruit above medium, regular; surface rich golden yellow, sometimes with net veining of russet; flesh yellow, firm, compact, crisp, aromatic, rich, spicy, sub-acid; quality the best. A valuable early winter apple and particularly desirable for its late blooming.

**Hubbardston Nonesuch**—Large, handsome, yellow, overlaid with red; tender fleshed, with distinct, delightful flavor. Strong grower and heavy bearer. Native of Hubbardston, Massachusetts. Season, November to January.

**Jonathan**—Origin, New York. Season, November to January. A seedling of Spitzenburg, which it resembles in fruit, and is a much better tree. Hardy in latitude of Central Iowa, where it is a vigorous and productive variety. A delicious and strictly dessert apple that always commands highest market prices. Fruit good size, roundish; surface is very smooth, clear light yellow, almost covered with rich dark red on sunny side; flesh white, tender, juicy, spicy, aromatic.

**King of Tompkins County**—Very large, round, oblate, yellow striped and clouded; quality excellent. An abundant annual bearer. November to March.



Grimes Golden

**Mammoth Black Twig**—Excels Winesap in nearly every important point; better grower, hardier, and the fruit much larger; color even a darker red; flesh firmer; flavor milder, but fully equal. A long keeper.

**McIntosh Red**—Origin, Ontario. Season, December and January. A choice variety of the Fameuse type. Tree vigorous, with spreading head; a good annual bearer. Fruit above medium to large, highly perfumed; smooth polished yellow, almost covered with brilliant solid crimson, a beautiful fruit; flesh snow white, crisp, very tender, sprightly aromatic, sub-acid; very good quality.

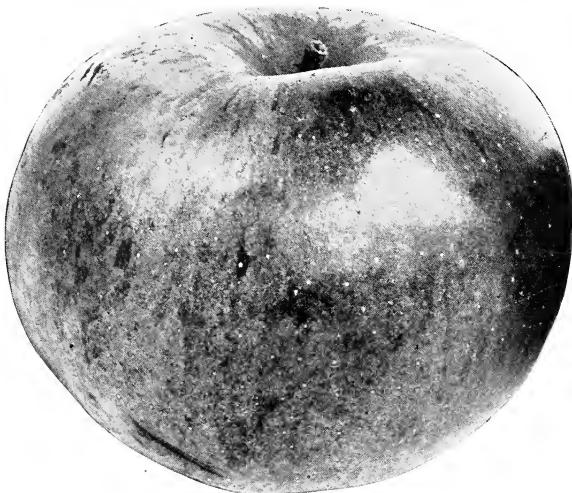
**Northern Spy**—Large, roundish-conical, often flattened, slightly ribbed; handsomely striped with red; flavor rich, aromatic, mild sub-acid, fine. Keeps through winter and late into spring; a tardy bearer. To afford fine fruit, tree must be kept thrifty by good cultivation. A fruit of the highest quality, and profitable for market.

**Northwestern Greening**—Origin, Wisconsin. Season, December to March. Tree a splendid, vigorous grower, quite hardy. Fruit large to very large; green, becoming yellowish green when ripe; flesh yellow, fine grained and firm. Flavor a good sub-acid; very smooth and attractive; should be given plenty of room in the orchard to secure large, even fruit. One of the best growers we have in the nursery and in the orchard is very prolific and regular when mature.

**Pewaukee**—Origin, Wisconsin. Season, December to March. Tree spreading, round topped and vigorous. Does well in eastern Wisconsin. Fruit large, yellowish green, striped and shaded with dull red, overlaid with a bluish bloom. Flesh yellowish, rather coarse grained, firm, juicy; flavor sub-acid. Originated by crossing Duchess of Oldenburg with Northern Spy pollen.



Rome Beauty



Wolf River

**Ontario**—A large and beautifully colored apple of delightful flavor. Creamy yellow, overlaid with deep, rich red. Flesh tender, slightly aromatic, vinous, refreshing. January to April.

**Canada Red**—A big red winter apple that came to this country from Canada. Its origin and early history are unknown. Its keeping qualities are very good. With only ordinary care it keeps through the winter and spring until May. It is a big solid winter apple of the very highest quality and commands large prices after all the other apples are gone. But the best of all, it is an annual bearer, producing heavy crops of fruit year after year even while young.

**Rhode Island Greening**—Origin, Rhode Island. Season, December to March. Fruit large and handsome, smooth, dark green overspread with yellow. Flesh tender, rich, rather acid, but highly flavored and excellent. Has long been popular in the Eastern States as a dessert apple and also for cooking. Tree vigorous, spreading; a heavy and constant bearer.

**Rome Beauty**—Large, roundish, very slightly conical; mostly covered with bright red on pale yellow ground; flesh tender, not fine-grained, juicy, of good quality. Ripens early in winter. The large size and beautiful appearance of this Ohio apple render it popular as an orchard variety.

**Roxbury Russet**—A vigorous and spreading grower. Fruit medium or large, roundish oblate, remotely conical; partly or wholly covered with rather rough russet on greenish-yellow ground, sometimes a dull brown cheek; flesh greenish-white, rather granular, slightly crisp, with good sub-acid flavor. Keeps late in spring. Large specimens become conical, with short, thick stalks. Succeeds well throughout Northern States.

**Scott's Winter**—Origin, Vermont. Season, December to February. Fruit small to medium; color deep red over yellow ground, russet in cavity; flesh yellowish white, coarse grained, juicy, small core; flavor, pleasant acid, good. Tree a spreading grower, productive with age.

**Seek - no - Further** (Westfield)—Medium or large, roundish, often slightly conical; obscurely striped with light dull red, more or less russeted, rarely covered wholly with russet; flesh tender, rich, spicy, of fine flavor; mid-winter. Tree productive; fruit always fair. Succeeds well throughout the Northern States.

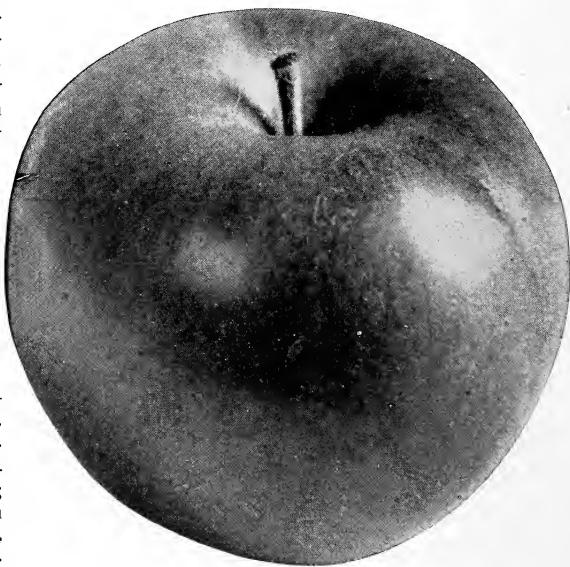
**Stark**—Large, roundish; golden-green, with crimson shadings; flesh yellow, moderately juicy, mild, sub-acid. The tree makes strong growth; bears early, abundant, regular crops. One of our best apples. January to May.

**Sutton Beauty**—December and January. Sour. Yellow, striped. Fruit large, roundish. Skin waxen yellow, striped with crimson. Flesh tender, sub-acid. Good tree; a free grower and productive. A valuable new apple, that is proving as profitable as the Baldwin for orchard purposes. Origin, Worcester, Mass.

**Stayman's Winesap**—It is now attracting attention everywhere as a profitable market variety. It has large size, bright red color, great productiveness and best quality to command it. The tree is a vigorous grower and like its parent is irregular and drooping in habit, and adapts itself readily to different soils and situations. November to February.

**Talman Sweet**—Origin, Massachusetts. Season, December to March. One of the most popular of the old eastern varieties. Tree is vigorous, upright, spreading and very productive. Fruit above medium; whitish-yellow, often with faint blush on sunny side; flesh white, firm, moderately juicy, fine grained, rich and sweet; quality excellent for a sweet apple.

**Wagner**—Medium, oblate, obscurely ribbed; shaded and indistinctly striped with pale red, and a full, deep red in the sun on warm yellow ground, often streaked with russet, flesh yellowish, fine grained, tender; compact, mild, sub-acid, aromatic, excellent; ripens through winter; succeeds well in the West. An early bearer.



York Imperial

**Wealthy**—An American apple that is becoming very popular on account of its handsome appearance and early fruiting. Hardy, productive. Fruit large size, roundish, skin smooth, splashed with dark red; flesh white, tender, juicy and sub-acid. November to January.

**Winesap**—Medium, conical, dark red; very smooth. Acid to sub-acid, juicy and rich, very valuable for both family and market. Tree very hardy and early and constant bearer. December to April.

**Wolf River**—Origin, Wisconsin. Season, October to January. One of the largest apples grown. Color yellowish-green with stripes and splashes of carmine; very handsome and showy; flesh nearly white, firm and rather coarse grained; flavor sub-acid, fair to good. Vigorous and fairly productive.

**York Imperial** (Johnson's Fine Winter)—Origin, Pennsylvania. Medium, oblong, angular, oblique, smooth; yellow shaded red, indistinct red stripes; flesh yellow, firm, juicy, sub-acid, good. Winter. An excellent shipping apple, always brings high prices.

**Yellow Bellflower**—Large, often quite large, surface pale yellow, often with a blush; very tender when ripe, fine grained, crisp, juicy, acid, becoming sub-acid, excellent, keeps all through winter. Growth of tree rather upright; succeeds best on rather light soils.

## Crab Apples

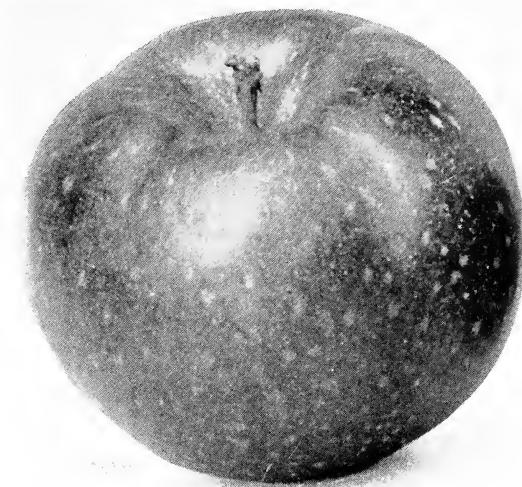
Within the past few years a good many people have given much attention to improving this class of fruit. Their efforts have been attended with marked success. Crab apples succeed equally well in all sections and are valuable for cider, preserving and jellies—some of the improved sorts are excellent for eating.

**General Grant**—Large, roundish oblate; yellow, with stripes of dark red, almost black, on the sunny exposures; flesh white, moderately fine grained, mild, sub-acid flavor. September to October.

**Red Siberian**—About an inch in diameter, grown in clusters; bears young and abundantly. August to September.



Transcendent Crabs



Canada Red

**Hyslop**—Origin, America. Season, September to October. Tree vigorous where hardy. Blights in some localities. Fruit medium; yellow grounded with heavy shadings of deep crimson and splashes of maroon with heavy blue bloom; flesh fine, firm, yellow, astringent; bears abundantly in clusters, which make the tree exceedingly ornamental. Its high color always commands a fancy market price for it. One of the most desirable crabs for culinary purposes.

**Martha**—Origin, Minnesota. Season, August and September. Tree a vigorous grower and very free from blight. Fruit large, yellow with heavy blush of light red; flesh is fine grained, firm; flavor sub-acid, very juicy; exceptionally fine for cooking. Not productive.

**Transcendent**—Origin, Russia. Season, September. Fruit medium to large; color brownish yellow with blush of carmine; flesh firm and crisp, yellowish, fine grained, very juicy, acid. Tree is a vigorous grower. Hardy. Subject to blight and should not be planted near other orchard trees.

**Whitney**—(Hybrid) (Whitney No. 20). Origin, Illinois. Season, August. Fruit large to very large for a hybrid; yellow, striped with red and mostly covered with red on sunny side; flesh yellow, very juicy and fine grained; flavor rich and almost sweet. Its crab percentage is shown in the health and vigor of the tree. The fruit in size and quality is equal to many apples.

**Yellow Siberian**—Medium, round, golden yellow. Vigorous grower. Ripens in September.



The Kieffer is as profitable as any pear grown.

## Pears

The cultivation of this fruit is rapidly extending as its value is appreciated, and the demand is increasing every year, making it one of the most profitable to plant. The range of varieties is such that, like apples, they can be had in good eating condition from August until early spring. The melting, juicy texture, the refined flavor and the delicate aroma of the pear gives it rank above all other fruits, excepting the grape.

### Summer Pears

**Bartlett**—Large size, yellow, with a beautiful blush next the sun; buttery, very juicy, and with a rich, musky flavor. The tree is a vigorous and erect grower, excellent for garden or commercial orchard planting; bears early and abundantly. Will begin to bear in three years, and in about seven years will produce a bushel of fruit per tree. A leader among canning pears, and when well grown is a universal favorite. August and September.

**Clapp's Favorite**—A large, fine pear, resembling the Bartlett, but without its musky flavor; pale lemon-yellow with brown dots, and fine texture; melting, buttery, juicy, with a delicate flavor; tree hardy and productive. August and September.

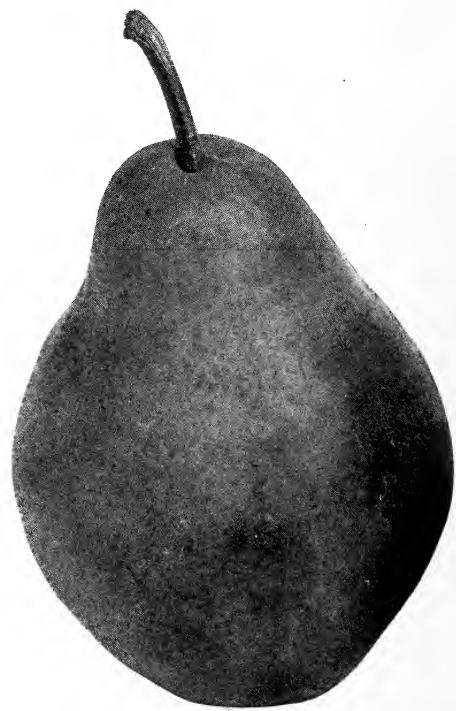
**Koonee**—Season last of August. Fruit medium to large. Color golden yellow, red cheek, handsome. Flesh spicy, juicy, sweet, good quality. Season very early. Tree vigorous, free from blight. Origin, Illinois.

**Wilder**—Medium to small, greenish yellow with a brownish red cheek; melting, sweet and very pleasant; tree a vigorous grower and good bearer.

### Autumn Pears

**Buerre d'Anjou**—Large, fine pear, buttery and melting with sprightly flavor; tree a fine grower and very productive, one of the best. October to January.

**Buerre d'Clairgeau (S)**—Very large, yellow and red. Flesh yellowish. Keeps solid a long time after gathering. Free grower and abundant bearer.



Clapp's Favorite

**Duchess d'Angouleme**—Very large, greenish-yellow, sometimes russeted; makes a beautiful tree and heavy bearer; buttery, melting and sweet. Season, October and November.

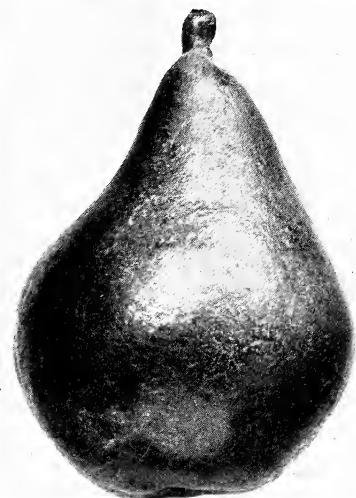
**Flemish Beauty**—September and October. Extra hardy. Fruit large, shape varies. Surface slightly rough, with some reddish brown russet on pale yellow ground. Flesh juicy, melting, often with a rich, sweet and excellent flavor, but variable, and sometimes not high-flavored; needs house ripening. An old and highly esteemed variety; a strong grower and great bearer. Hardy and desirable. This variety ranks for hardiness among pears as the Duchess of Oldenburg does among apples—with the most hardy.

**Garber**—Large, bright yellow with red, juicy and good; a splendid canning pear; tree vigorous and hardy, not subject to blight; ripens just after Bartlett.

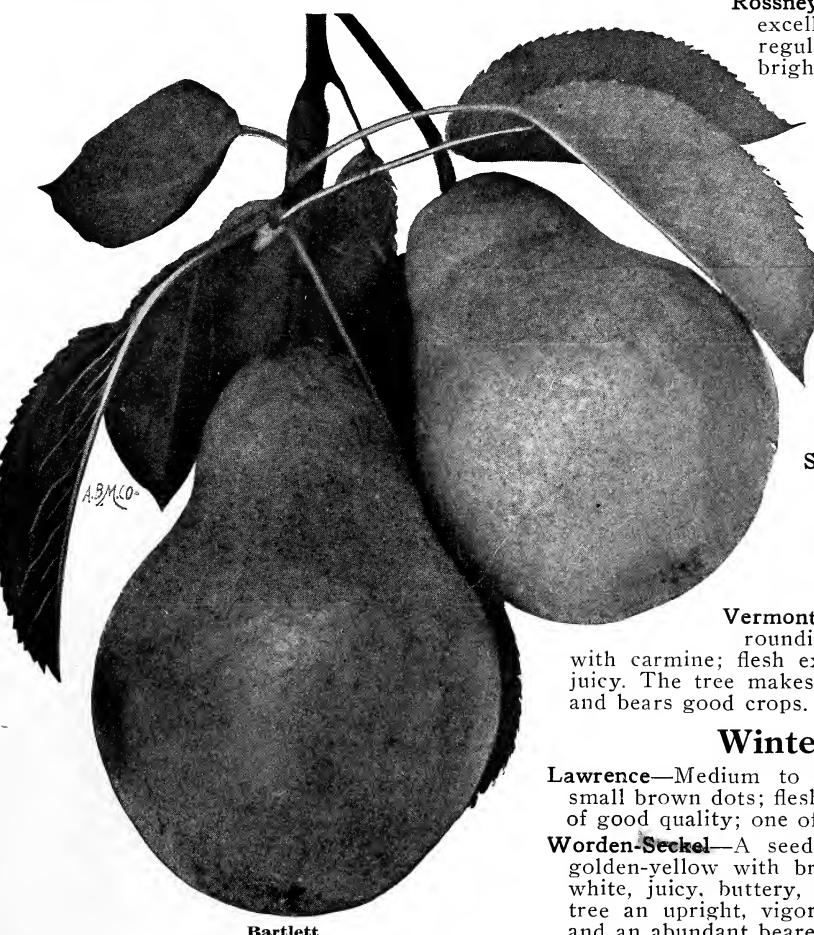
**Howell**—Large, light waxen yellow with a fine red cheek; rich, sweet and melting, highly perfumed; tree vigorous, hardy and bears abundantly; one of the very best. September and October.

**Kieffer**—This is the most popular pear grown; fruit of fine size, rich color and good quality; tree very vigorous and seldom blights; should be picked at maturity and ripened indoors. October and November.

**Louise Bonne De Jersey (D)**—A large, beautiful, first rate pear. Yellow with a dark red cheek; melting, buttery and rich. Tree a vigorous grower and most abundant bearer.



Clairgeau



Bartlett

**Rossney**—This new pear combines excellent flesh and flavor, smooth regular form, with large size, bright color and superior shipping qualities. 2-year grafts have given us remarkably fine specimens of its fruit, which ripens about two weeks later than Bartlett and averages larger. The tree is vigorous, hardy in wood and in fruit buds, and a great bearer. September.

**Seckel**—Small, rich, yellowish brown; one of the best and highest flavored pears known; very productive. September and October.

**Sheldon**—Large, yellow or greenish-russet with fine red cheek; flesh a little coarse, melting, juicy and crisp, highly perfumed; tree vigorous and productive. October.

**Vermont Beauty**—Of medium size, roundish, yellow, heavily shaded with carmine; flesh exceedingly fine, sweet and juicy. The tree makes a strong, healthy growth and bears good crops. October.

## Winter Pears

**Lawrence**—Medium to large; lemon-yellow with small brown dots; flesh white, juicy, melting, and of good quality; one of best winter pears known.

**Worden-Seckel**—A seedling of the Seckel; color golden-yellow with bright crimson cheek; flesh white, juicy, buttery, fine grained and melting; tree an upright, vigorous grower. Very hardy and an abundant bearer.



A Berrien county Elberta Peach Orchard.

## Peaches

To secure healthy, vigorous and fruitful trees, the ground must be well drained and kept clean and mellow. Peach trees are easily cultivated and their freedom from disease, the short time it takes to come into bearing and the immense demand for the fruit, makes them extremely profitable. Peaches are borne on wood of the previous season's growth, and this makes it absolutely essential to prune the trees yearly, remove dead branches and let in light and air. Keep the tree in good shape and you will have splendid returns.

**Admiral Dewey**—A perfect freestone, of fine size, form and color, with delicious yellow flesh that is yet firm enough to ship well. The tree is a strong, hardy, symmetrical grower and produces well. The very best early yellow freestone. July.

**Banner**—New variety, originated in Canada; large, yellow, freestone, bears early, productive; ripens October 1st.

**Beers' Smock** (Free)—Medium to large, round; creamy white with dark red blush; flesh yellow, tender and rich; good quality; a good commercial peach.

**Chair's Choice** (Free)—Large, roundish, tapering to apex; pale yellow with some blush, flesh yellow, quite acid and red at pit; a good commercial peach. October.

**Crawford's Early** (Free)—Large, roundish, bright yellow with red cheek; flesh yellow, juicy and sweet; quality good. August and September.

**Crawford's Late** (Free)—Large, roundish-oval, yellow with broad red cheeks, flesh yellow with red at the pit; melting, vinous and very good. Late September.

**Crosby** (Free)—Medium to large orange-yellow splashed with red; flesh yellow, red at pit, juicy and rich; tree hardy and prolific; fruit should be thinned in order to make good sized peaches; a popular market sort. Middle of September.

**Elberta** (Free)—The great market peach of the Southwest; perfectly hardy in the North, and is believed by many growers to be the best all around peach; color lemon-yellow with blush on sunny side; flesh pale yellow, tender and juicy; tree vigorous; a good shipping peach.

**Fitzgerald** (Free)—An improved Early Crawford, full equal to it in size, quality and color; tree bears quite young, is productive and very hardy; bright yellow splashed with red; flesh deep yellow and of the best quality; early September.



Admiral Dewey Peaches



**The Elberta still holds first place against all competitors**

**Engle's Mammoth**—Large, round, oval, suture slight; yellow with red cheek; stone small, free; sweet, rich, juicy. One of the very best market sorts. Early September.

**Foster (Free)**—Large, deep orange-red, becoming quite dark red on sunny side; flesh yellow, rich and juicy with sub-acid flavor, firm; one of the best for canning or drying.

**Hill's Chili (Free)**—One of the best; medium to large, oval, yellow with red; flesh rather dry, but good; a valuable sort for drying. September.

**Kalamazoo (Free)**—Medium to large, oval; yellow striped with red and a thin bloom; flesh yellow, red at pit, rich, vinous and of good quality. A valuable sort.

**Mountain Rose (Free)**—Large, handsome; yellow with red cheek; flesh white and juicy; one of the best. August.

**Solway**—This variety is large, yellow and mottled, with a red cheek; the flesh is yellow

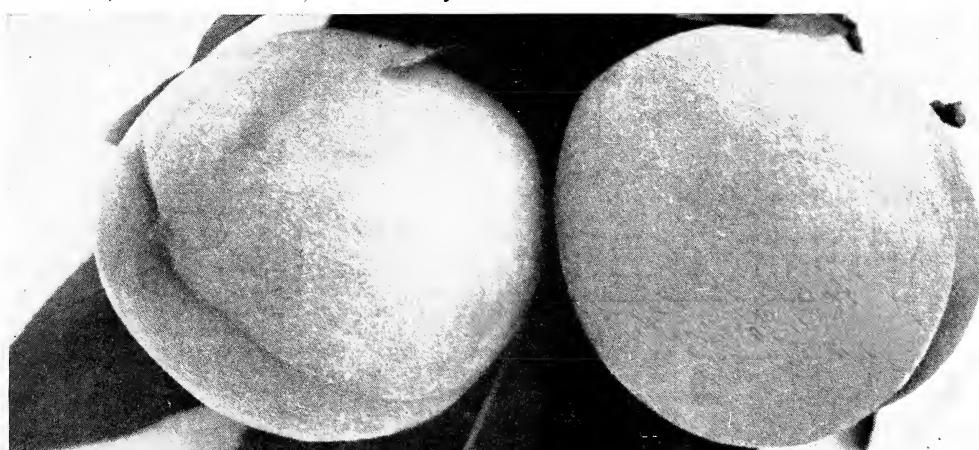
and the trees are very productive. Valuable for its late ripening. Freestone. Ripens in October.

**New Prolific**—Excellent quality, yellow, free-stone, we consider it the best of the yellow sorts. Very hardy and prolific. Good shipper and canner. September.

**Niagara**—A New York variety ripening just after Elberta. The fruit is uniformly large, beautiful and luscious. An excellent shipper. Tree is very hardy and more resistant to diseases than other varieties. Bear annually very heavy crops.

**Yellow St. John**—Nearly the size of the Early Crawford and fully equal to it in beauty. More productive and of better quality. Orange yellow with a deep red cheek.

**Stearns**—In size equal to the Elberta and in quality and brilliance of color much superior. A perfect free stone, yellow flesh, small pit. Ripens between the Crawfords and about with the Elberta.



The Stearns Peach is a comer

# Cherries

There are few more desirable fruits than the Cherry. They are being planted more and more each year and there is always a brisk demand on the market for good fruit. Aside from their fruit value, they make very ornamental trees for the lawn, especially the Heart and Biggereau varieties, which are strong, vigorous growers, with large glossy leaves, and open, spreading heads. Cherries thrive in most any dry or well drained soil; the fruit is delicious whether eaten out of the hand or preserved. No home garden is complete without a few cherry trees.

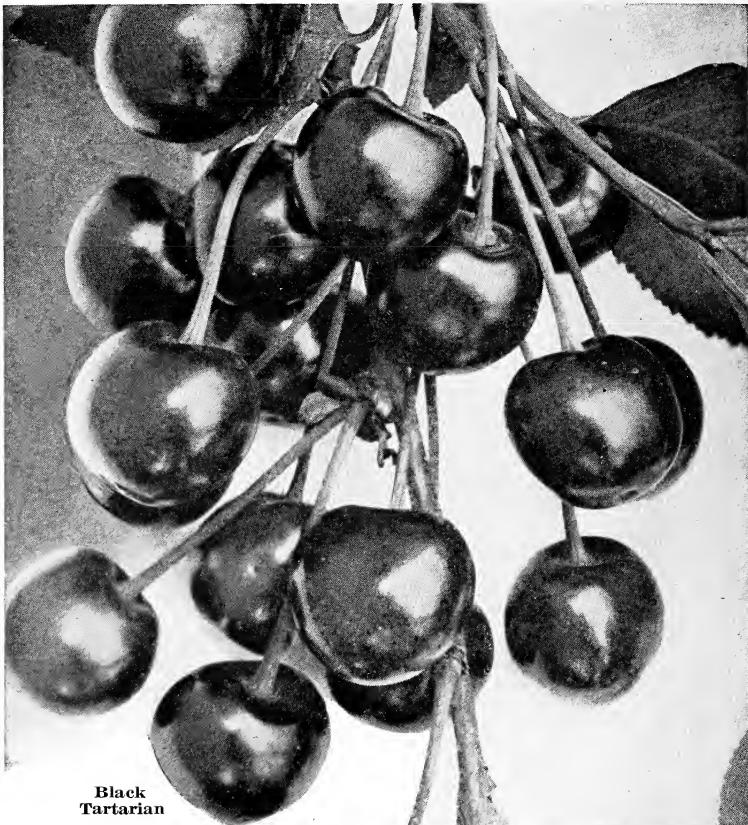
## Heart and Biggereau Types

**Bing Cherry**—This grand new sweet Cherry originated in Oregon. We specialize on it and grow the trees for a "particular" trade. Flesh very solid, flavor of the very highest quality. A fine shipper. Oregon growers are shipping them to London, England. It is perfectly hardy and very prolific in the middle west.

**Black Tartarian**—Very large, bright purplish black; half tender, juicy, very rich and flavor excellent; tree a vigorous grower and producer. June.

**Governor Wood**—Large, rich, light yellow with red cheek; juicy and sweet; late June.

**Napoleon Biggareau (Royal Ann)**—A beautiful cherry of large size; pale yellow with bright red cheek; flesh firm, juicy and sweet; one of the best for market and canning. Late.



Black Tartarian

**Schmidt's Biggareau**—Heavily clustered fruits of largest size, deep crimson black; tender, juicy, well flavored. July.

**Windsor**—A splendid, large, liver-colored cherry that hangs a long time and rots but little. The flesh is remarkably firm and good, the tree very hardy and fruitful. Exceedingly valuable for late market and home use. July.

**Yellow Spanish**—Large, pale yellow with red cheek; flesh firm, juicy and excellent; one of the best light colored cherries; vigorous and productive; late June.

## Duke and Morello Types

**Baldwin**—One of the best of the Morello type; very large, round, color dark yet almost transparent; stem quite large, medium in length; fruits usually in pairs; flesh sub-acid and very good; it fruits early, is hardy, very productive.

**Dyehouse**—Partakes of both the Duke and Morello in wood and fruit; a very early and sure bearer; ripens a week earlier than Early Richmond.

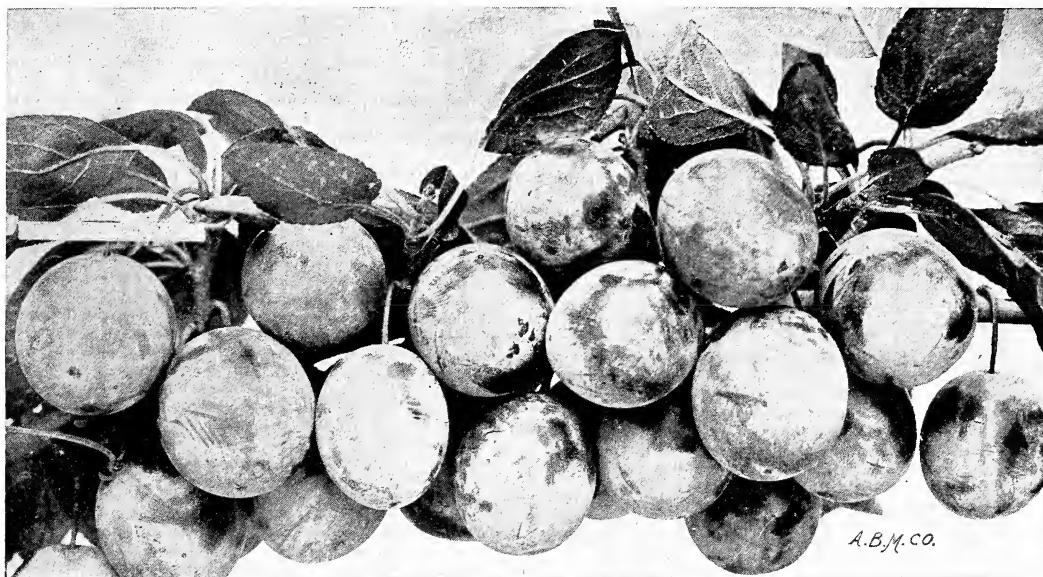
**Early Richmond**—Medium size, dark red, melting and juicy, acid flavor; one of the most valuable and popular of the acid cherries, and is unsurpassed for cooking; tree slender grower, exceedingly productive and very hardy; will stand the most severe weather.

**English Morello**—Medium to large, roundish; dark red, nearly black when ripe; flesh purplish-red, meaty, juicy, slightly astringent and good; very productive. August.

**May Duke**—Large, dark red, juicy, rich; a superior and productive old sort that holds its own well against all newcomers. June.

**Montmorency Large**—Large, roundish, red; flesh tender, mildly acid and good quality; larger than Early Richmond and about ten days later; one of the popular sorts. Late June.

**Ostheim**—Large, roundish, one side compressed; dark red and much darker when fully ripe; flesh liver-colored, tender, juicy, sub-acid and very good; early and ripens over a long period.



A Branch of Lombard Plums

## Plums

The plum like the pear and other finer fruits, succeeds best in heavy soil with some clay, and being almost entirely free from disease, they can be grown very profitably. Of late years the demand has been growing very rapidly. The finer kinds are excellent dessert fruits of rich and luscious flavor; for cooking and canning they are unsurpassed. For home consumption they should be allowed to remain on the trees until fully ripe, but for shipping they should be gathered a few days earlier. Some of the varieties are inclined to overbear and should be thinned in order to produce perfect fruit. Most all the varieties, especially the native sorts, are extremely hardy and will withstand the most severe weather.

### European Plums

**Bradshaw**—Very large, dark violet red; flesh yellowish green, juicy and pleasant; tree vigorous, erect and productive. August.

**Coe's Golden Drop**—Large and handsome; light yellow, firm, rich and sweet; one of the best of the late plums. Late September.

**Climax**—Abundantly productive of its very large, heart-shaped fruits which are a deep rich red, fragrant, sweet-fleshed and fine in every way. One of the earliest of all plums to ripen. The tree is strong, thrifty and hardy.

**German Prune**—Medium oval, purplish-blue; rich, juicy, and of high flavor; tree vigorous and very productive.

**Grand Duke**—Very large, deep purple, fine flavor; entirely free from rot. Last of September.

**Gueii**—Large, roundish-oval, dark purple, flesh firm, a little coarse and sub-acid. A valuable sort for cooking and market. September.



Bradshaw Plums

**Lombard**—Medium, roundish-oval, violet-red, juicy and pleasant; adheres to stone; a valuable market sort, hardy and adapted to light soils; nearly always produces a crop.

**Moore's Arctic**—Grows in large clusters, large, dark purple; flesh very fine; splendid for preserving and dessert; tree vigorous and prolific; fruit is a long keeper.

**Monarch**—Large, dark purple, freestone, delicious quality. Tree strong, upright and productive. Does not crack with rain. Season last of September.

**Pond's Seedling**—Very large, dark red, juicy, and very sweet. Its large size, bright color, productiveness and shipping qualities render it a profitable variety for home or distant markets. September.

**Reine-Claude (Green Gage)**—Small, yellowish-green when mature; flesh pale green, melting, luscious and best quality; considered the standard of excellence; tree a moderate grower. Mid-August.

**Shippers' Pride**—Large, nearly round, dark purple, juicy and sweet; a splendid shipper and good market variety; tree moderate grower, but productive.

**Shropshire Damson**—One of the best for preserving; flesh amber colored, juicy and spicy; tree vigorous, hardy and an abundant bearer.

**Yellow Egg**—A very large and beautiful egg-shaped yellow plum; a little coarse, but excellent for cooking; tree a free grower and very productive. Late August.

### Japan Plums

**Abundance**—One of the best Japan plums. Tree is a very rapid grower, healthy, and comes into bearing quite young and yields abundantly; medium size, rich bright cherry-red with distinct bloom and highly perfumed; flesh light yellow, juicy and tender and excellent quality; tree vigorous and hardy.

**Burbank**—Medium to large, orange-yellow, dotted and marbled with red; flesh meaty, yellow, sweet and good; valuable for canning and a good market plum; mid-June. Hardest and most prolific of the Japan varieties.

**Climax**—(Hybrid). Vigorous, upright grower, productive as Burbank, several times larger, two weeks earlier and higher colored. Color deep, dark red; skin firm, flesh yellow, sweet, rich, fruity, of fine quality.

**October Purple**—Strong, vigorous grower, said to be one of the hardest of the Japan varieties. Large, round, late, purple, productive and of good quality. Fine for late market. 5 to 6 feet, each 50 cts.; per 10, \$4.00.

**Red June**—Ripens before Abundance, fair size, productive; vermillion red, good quality. Aug.

**Satsuma**—Large, roundish-oval with a short blunt point; dark red, speckled with greenish dots; flesh very firm blood-red, rather coarse but good. A canning plum. Season late and a long keeper.

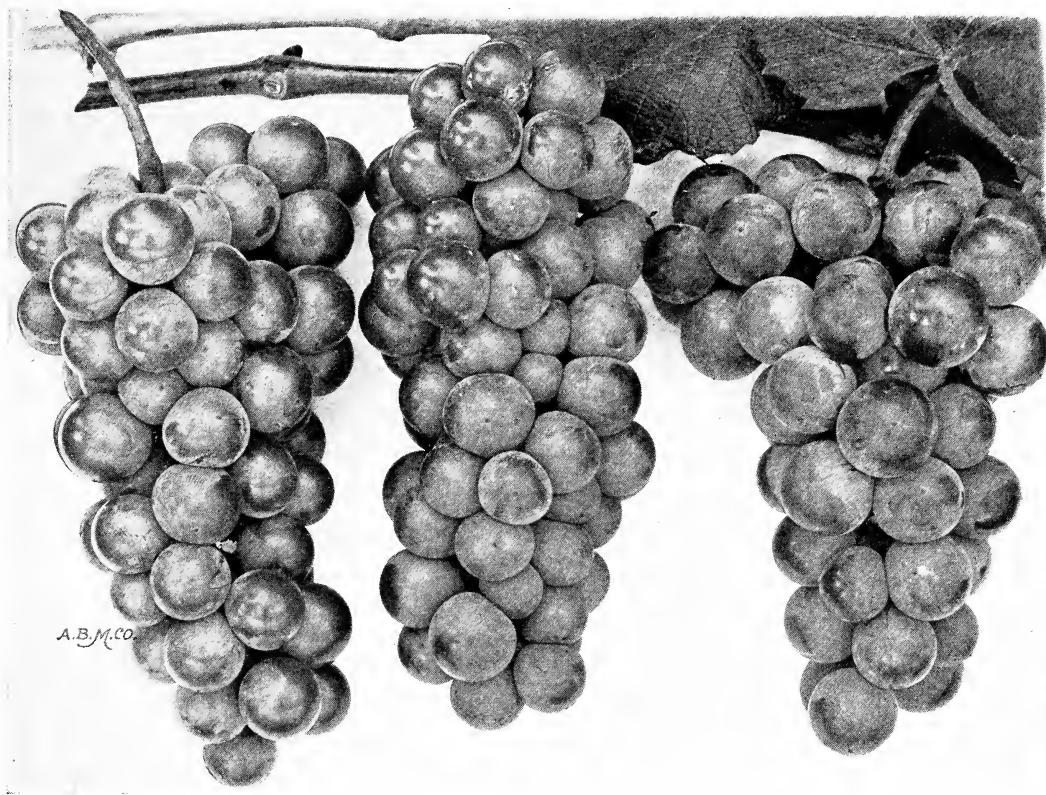
**Wickson**—Large, heart-shaped, deep maroon-red; flesh very firm, yellow, sub-acid, rich and good; a good shipping plum; tree upright but in some localities a shy bearer.



Japanese Plum Abundance

### Walnuts

**Black Walnut** (*Juglans Nigra*)—This species is a common and stately forest tree in the Middle and Western States; grows from forty to sixty feet high; has an open, spreading head and is rapid in growth; produces large crops of nuts with rough, hard shell containing rich, oily kernels of fine flavor. Odd corners on the farm may be utilized to advantage by planting nut trees, which are a source of both pleasure and profit.



Niagara

## Grapes

Everyone should have a few grape vines in the home garden. They require very little cultivation and the returns are so abundant. If proper selection of varieties is made, one may have grapes on the table for several months in the year. They can be trained over fences, trellises, or doorways, and thus be ornamental as well as useful. To grow for market, they can be planted on hillsides that are unsuitable for other crops. They should in all cases have a free exposure to the sun and air.

**Agawam** (Red)—Bunch large, compact, shouldered; berry large, dark red or nearly black; flesh tender, juicy, vinous and good quality; later than Concord.

**August Giant**—A cross between Black Hamburg and Marion; has a decided Hamburg flavor; rich and fine; berries very large, often measuring  $1\frac{1}{8}$  inches in diameter.

**Brighton** (Red)—Bunch medium to large, quite compact; flesh rich, sweet and best quality, color dark crimson or brownish red; vine vigorous and hardy.

**Campbell's Early** (Black)—A strong, vigorous and hardy sort; ripens early and bears abundantly; berry large, black with blue bloom; tender, sweet and rich; good market berry; it is a good shipper and long keeper.

**Concord** (Black)—Too well known to need much description; is considered by many to be the best all around grape grown; is extremely hardy, vigorous and productive, bunches large compact; berries large, juicy, buttery and sweet; will succeed well almost anywhere. Popular for market.

**Catawba** (Red)—Branches medium, shouldered; berries large, deep coppery red, becoming purple when ripe; flesh somewhat pulpy, juicy, sweet, aromatic and rich; one of the latest, does not ripen well in the North.

**Champion** (Black)—Bunch medium, compact, berries medium, quality fair; on account of the vigor of the vine, showy fruit and heavy bearing, it is extensively grown for market.

**Delaware** (Red)—One of the best red grapes; bunch small and compact, berry small, round, beautiful light red; flesh rich, vinous, sweet, delicious; best quality; a good market grape.

**Green Mountain** (White)—The earliest white grape; bunch medium to large, shouldered; berries medium, greenish-white, tender, sweet and excellent quality; combines hardiness, fruitfulness and vigor and health. A valuable sort.

**Moore's Early** (Black)—Bunch large, berry round with a heavy blue bloom; quality said to be better than Concord; hardy and prolific; good market berry; ripens about two weeks before Concord.

**Moore's Diamond** (White)—A vigorous grower entirely free from mildew and a prolific bearer; bunches large and compact, slightly shouldered; color delicate greenish-white with yellow tinge when ripe; berries tender, juicy, and nearly transparent, sweet and rich; ripens about two weeks before Concord.

**Niagara** (White)—One of the leading white sorts; bunch large, shouldered, compact; berry large, yellowish white, juicy, vinous and sprightly; quality good; skin tough, making it a good shipper and market berry.

**Pocklington** (White)—The great vigor and hardiness of the vine with the beauty and size of the clusters, place this in the front rank of white grapes; berry a light lemon-yellow, tender, sweet, fine flavor; very prolific.

**Regal**—Very hardy, growth vigorous, wood short-jointed and ripens early; very productive. Bunch medium to large, very compact. Berries large, translucent, dark red, juicy, with a thin, tough skin; pulp tender. Fine for home or market use.

**Salem** (Red)—Bunch medium, shouldered and compact; vine strong and vigorous; berry large, coppery red, thin skin, sweet and sprightly; a good market berry; September.

**Wilder**—Large; bunches generally shouldered; berry round and large; flesh buttery, with a somewhat fibrous center; sweet, rather sprightly, black. Middle of September.

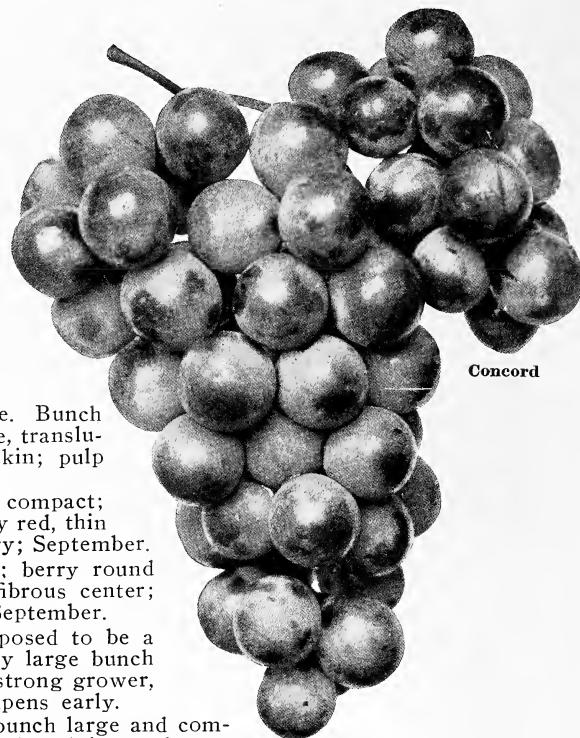
**Woodruff**—A large, handsome red grape, supposed to be a seedling of Concord; remarkably showy, very large bunch and a profitable market sort. The vine is a strong grower, with healthy foliage and entirely hardy. Ripens early.

**Worden (Black)**—A seedling of the Concord; bunch large and compact, berry round, black with blue bloom, pulpy, juicy and very pleasant; ripens several days earlier than Concord.

**Wyoming** (Red)—Bunch rather small and compact; berry medium, red, brighter than Delaware; tender, juicy, sweet and very good; hardy, vigorous and prolific; one of the best early red grapes.



Champion Quince



Concord

## Quinces

Quinces are much sought for canning. When put up in the proportion of about one quart of Quinces to four quarts of other fruit, it imparts a delicious flavor. It will grow in any good garden soil, which should be kept mellow, and well enriched. Fruit should be thinned out if it bears too freely.

**Angers**—Size medium, pear shaped, golden-yellow, rather acid; tree a thrifty grower and bears abundantly. October.

**Bourgeat**—Very large, smooth, golden-yellow; tender, and is a good keeper, very productive and healthy. October.

**Champion**—Very large and handsome; flesh cooks as tender as an apple without hard spots; flavor delicate; tree very handsome and bears abundantly; one of the most valuable sorts; color greenish-yellow.

**Meech's Prolific**—Very large, bright yellow; quality very good and quite fragrant; bears early and is very productive; one of the best. Mid-season.

**Orange**—Large, roundish, somewhat irregular with a small short neck at the base; fine, golden-yellow flesh and of excellent flavor. October.

**Rea's Mammoth**—Very large, roundish, color yellow with pinkish shades, excellent quality; tree a strong grower with dark foliage; bears well and early.



Moorpark Apricots—A fine Market Variety

## Apricots

The fruit ripens after the early cherries and just before the plums and peaches; tree is as hardy as the peach and requires about the same cultivation. It ships well and commands a good price in the markets, and for drying and canning it has no superior. The Russian varieties are the most hardy, earliest and most productive.

**Early Golden**—Small, roundish-oval; pale orange with smooth skin; flesh yellow, juicy, sweet and of the best quality; hardy and productive; freestone.

**Harris**—Large, oval, bright yellow with red cheek; flesh tender, sweet and good; tree hardy, productive. Late July.

**Moorpark**—One of the largest; orange yellow with numerous specks and dots; flesh yellow, sweet, juicy and rich; tree somewhat tender and inclined to ripen unevenly. August.

**Royal**—Large, roundish-oval; pale orange with faintly tinged red cheek; flesh yellow, firm, sweet, highly flavored, slightly sub-acid and good quality, ripens a week earlier than Moorpark; a good market variety.

**Superb** (Russian)—Medium, roundish-oval, smooth, light salmon with numerous red or russet dots; flesh yellow, firm, sub-acid and good; tree perfectly hardy, and in productivity it has no superior. Season, middle of July.

## Mulberries

The Mulberry is valued as an ornamental shade tree and the fruit is quite popular in some sections. Should be planted in deep, rich, sandy loam. Requires little care and is of easy culture. The fruit is sprightly and refreshing and is a valuable addition to any fruit garden.

**Downing's Everbearing**—A beautiful tree for the lawn or street; bears an abundant supply of sweet, refreshing fruit for several weeks; berries are about one and one-half inches long; color blue-black.

**Hicks' Everbearing**—Much like Downing in color, size and quality.

**White**—This is the variety used most for feeding silk worms; it forms a large spreading tree.

**New American**—Equal to Downing in all respects, and a much hardier tree; vigorous grower and very productive; ripe from middle of June until September; color black.

**Russian**—A very hardy, rapid-growing, timber tree of great value, especially in the West; foliage very abundant and said to be very desirable for silk worm culture; fruit good size and produced in large quantities. Introduced into this country by the Mennonites.

## Japanese Walnuts

The nuts are considerably larger than the common hickory-nut, and borne in clusters of fifteen to twenty. The shell is a little thicker than that of the English Walnut, which it resembles in a general way. The trees begin to bear when two or three years old.

## Currants

The Currant is one of the most valued of the small fruits. They mature just before raspberries and can be used either raw or cooked. Being very hardy, they do not winter-kill and are easy of cultivation, requiring little care. They can be grown in any good garden soil.

**Black Champion**—Very productive, large bunch and berry; excellent quality, and a strong grower.

**Black Naples**—Very large, black, rich, tender and excellent for jellies and wine; very productive.

**Cherry**—Large, deep red, rather acid, branches short, very productive.

**Fay's Prolific**—A cross between the Cherry and Victoria; one of the most popular of the red currants, and immensely prolific.

**Lee Prolific**—A new English variety; the fruit is large and of superior quality; vigorous and immensely productive; is classed with the black varieties.

**London Market**—A particularly valuable variety for northern climates, as it is planted extensively in Michigan, and is regarded as one of the very best for that state. The plant is extremely hardy and vigorous and retains its foliage throughout the season. Beautiful in color, large in size and a very heavy cropper. Ships well, and is excellent for market either near or distant.

**North Star**—Said to be the strongest grower among the red varieties; bunches average four inches in length and are freely produced; extra quality and extremely hardy.

**Perfection**—Berries are a beautiful bright red and larger than Fay's Prolific. In quality it is said to be superior to anything in the market today; rich, mild, sub-acid flavor, with plenty of pulp and few seeds, clusters are long and size of berry is maintained to the end.

**Pomona**—Fruit of good size and flavor, bright red, has long stems and hangs in fine condition after ripening; is a good shipper; bush bears early and is wonderfully prolific; a good market sort.

**Red Dutch**—An old standard sort. Berry medium size, good quality; plant a strong, upright grower; productive.



Perfection Currant

**Victoria**—Clusters medium, berries medium to large, bright red, mild, sub-acid; one of the most valuable late varieties.

**White Grape**—Bush vigorous and productive; clusters long; berries large, very attractive; mild flavor and good quality; a good table variety. Distinct from White Dutch.

**Wilder**—Clusters above medium length and berries large, bright red, of excellent quality, with mild, sub-acid flavor; ripens early and is a good keeper.

## Gooseberries

This fruit is very useful for cooking either green or ripe, and is used for canning extensively. Requires the same cultivation and treatment as Currants.

**Columbus**—Greenish yellow. Fruit large, handsome, of excellent quality. The plant is vigorous and productive, and does not mildew. The Columbus Gooseberry merits a place in every garden.

**Downing**—Fruit large, round, light green with distinct veins, soft, juicy and finely flavored; vigorous and productive; smooth skin; one of the best.

**Industry**—One of the best English varieties yet introduced; berries being very large, dark red, hairy, rich and agreeable; bush vigorous and a great producer.

**Houghton**—Medium size, pale red, sweet and juicy; vigorous grower, abundant bearer and free from mildew.

**Josselyn (Red Jacket)**—Large size, smooth and excellent quality; very hardy and a wonderful cropper.

**Pearl**—Similar to Downing, but fruit a little larger; very hardy, free from mildew; very productive; valuable for home use or market.

**Smith's White**—Bush moderately vigorous and very productive; fruit large, pale yellow and thin-skin; excellent quality for dessert or cooking.

*Whitensmith*



Cumberland Raspberries

## Raspberries

The Raspberry is one of the most delicious and popular fruits grown. They are always in demand in season and command good prices on the market. For canning purposes they are unexcelled. They are easily cultivated and require little care. Cut out the old and weak shoots each year; plant in good soil in hills about four feet apart. With a little care and attention they will produce large crops of berries. For winter protection, bend the canes over and cover with straw or leaves, and remove early in the spring.

**Black Diamond**—Black. Time of ripening here, first half of July. The Black Diamond has shown itself to be the most profitable black raspberry in the world. It is sweeter than anything else on the market, more pulpy, and contains fewer seeds; at the same time is firm and a No. 1 shipper. It is a grand berry for drying.

**Cumberland** (Black)—The largest of all black caps; a healthy, vigorous grower, throwing up stout, stocky, well branched canes that produce immense crops of magnificent berries. Fruit very large, firm, quality about the same as Gregg; keeps and ships as well as any of the blacks. Very profitable.

**Cuthbert** (Red)—Large, bright scarlet-crimson; excellent quality, firm, juicy and refreshing; vigorous grower, hardy and productive; popular as a home garden and market berry.

**Early King Raspberry**—Many of our best fruit growers consider this the best of the early Red Raspberries. It has large and attractive bright red fruit of good flavor, ripening with the earliest and firm enough to ship nicely. In hardiness, growth and productiveness it is all that could be desired.

**Columbian Red** (Red)—Resembles the Shaffer, but is much better; the berry is firmer, dark red and adheres to the bushes much longer; a strong grower, attaining large size; one of the hardiest and most productive, and stands at the head for canning, jams, etc.

**Gregg** (Black)—Of good size, fine quality, productive and hardy, firm, sweet and rich; strong grower and good bearer; ripens late and evenly; good market berry.

**Golden Queen**—May be described as a yellow Cuthbert. Flavor is of the highest quality. Immensely productive.

**Loudon** (Red)—Large, firm and of good quality; dark crimson; very productive, hardy and vigorous. Endures winters without protection.

**Plum Farmer** (Black)—It ripens its crop in a few days, and is early enough to get the good prices. Perfectly hardy, is a good grower and productive. The berry is large, and of a quality that makes it a good market berry.

**St. Regis** (Red)—Bears a full crop at the regular season and continues to send out new shoots that bear until fall. In this way it gets the name, "Everlasting." Bright crimson, large size, firm, and of good quality.

*Raspberries*

## Blackberries

Blackberries are among the best-known and most valued of our berries. No fruit of any kind is more wholesome. A liberal use of berries and other good fruit will save doctors' bills. Blackberries should be planted in rows six or seven feet apart, three to four feet in the row. Keep the ground light, rich and clean, and pinch the canes back when they have reached four feet in height. The demand for blackberries is always good.

**Blowers**—Fruit large, productive; a strong grower; a promising new variety.

**Early Harvest**—One of the earliest, berry medium sized, good quality and very prolific; firm and attractive in appearance. A good market sort.

**Eldorado**—Vine is vigorous and hardy; berries are very large, black, borne in clusters; ripens well together; sweet, melting and pleasing to the taste.

**Erie**—One of the very best large new blackberries; absolutely hardy, very black, firm and solid; ripens early.

**Mersereau**—Large, oval, sparkling black, sweet, rich and melting, hardy and productive.

**Rathbun**—A strong, erect grower and hardy; fruit is sweet, luscious, without a hard core; high flavor, jet black, small seeds; firm enough to ship and handle well. One of the largest sized berries.

**Snyder**—The hardest blackberry known; fruit medium sized and of a good quality; a standard market variety.

**Wilson's Early**—Very large, black, sweet, rich and good quality; ripens early and is productive.

## Dewberries

The Dewberry is a dwarf and trailing form of the Blackberry. The fruit is highly prized as a market fruit owing to its large size and fine quality. Set the plants two feet apart in the



**Blowers Blackberry**

row and cover in winter with coarse litter. Should be mulched in the spring to keep them off the ground.

**Lucretia**—Perfectly hardy and remarkably productive; said to be the best of this class of fruit; ripens early; is often one and one-half inches long by one inch in diameter; sweet, luscious and melting; this variety is recommended most highly.

## Asparagus

This delicious and healthy vegetable should be found in every garden. Nothing can be more easily grown and no plant gives such a healthful food for such little outlay. Set in the fall or spring with the crown of the plant about three inches below the surface of the ground. Ten to twelve inches by two feet is a good distance to plant. Give the bed a liberal dressing of manure at intervals, and except near the sea shore, 3 pounds of salt per square yard every spring.

**Barry's Mammoth**—The largest of all, is very early; quite tender, and delicious; light color. The yield is simply enormous.

**Conover's Colossal**—A standard kind of first-class quality. Tender and high flavored; valuable market and garden sort.

**Palmetto**—Until recently we believed that the Conover's Colossal was the best sort known, but we are now forced to concede that the Palmetto is earlier and a better yielder.

## Rhubarb or Pie Plant

This very desirable vegetable comes early in the spring. The large stems of the leaves are used for pie-making and stewing. It is also valuable for medicinal purposes. A deep, rich soil is indispensable to secure large, heavy stalks. Plant in rows four feet apart, with the plants three feet distant. Set so that the crowns are about one inch below the surface. Top dress in the fall with stable manure and fork under in the spring. The great value of Rhubarb has always been its earliness, and it deserves to be ranked among the best early products of the garden.

**Eaton's Peach-Flavored**—Very early; large; tender, delicate, rich peach flavor. For pie and sauce it is excellent.

**Linnaeus**—This variety produces a small stem of fine quality; early; excellent for cooking.

**Victoria**—Very large and valuable for market. Early.



## Ornamental Department

A great many people are beginning to realize that by expending a little time and study they can have well-kept and attractive grounds, adding to the beauty and comfort of the home and increasing the value of the property. If the grounds surrounding the house are extensive, beautiful effects can be produced by planting shade trees, shrubs, vines and flowers, according to some pre-arranged plan. If the grounds are small, a few shrubs such as the Altheas, Hydrangeas, Spireas and other sorts can be used to good advantage. Vines trained over porches, trellises, fences, etc., can be made very effective at a small cost and give great comfort and satisfaction not only to yourself, but to your neighbors. Real estate owners who have vacant property to sell are beginning to plant fine trees and shrubs, knowing that they can secure a larger percentage on their investment when the ground is sold, as purchasers will pay more for a fine looking lot than one given over to unsightly surroundings. We would also emphasize the fact that you should **buy none but the best**. Few people realize the importance of getting started right. A little thought will convince you that it is not the quantity, but the quality that counts. Buy none but the best stock, properly grown by reliable nurserymen, who have given their best thought to the careful propagation and best varieties. We have a large stock of all kinds of shade trees, ornamental shrubs, etc., that has been selected with the greatest care and attention, both as to variety and quality.

**How to Plant** A fine, well-cut lawn is one of the handsomest features of a place. Do not make the mistake of planting at random all over the grounds. Trees and the larger shrubs may be planted along a lane or avenue leading to the house, or dotted about the lawn on lines radiating from it. This will secure light, air and a good view from the house. In laying out the grounds, take into consideration economy in labor, and make as few walks as possible. Upright shrubs, roses and flowers should be planted in clumps, each kind by itself, and avoid making the lawn look like a checkerboard. These beds should be well cultivated, and the plants pruned annually. Mass the trees and beds on the boundaries so as to leave a broad space for the lawn, and where there is a pretty view leave an opening. Where there is an unsightly object, conceal it by planting trees or climbing vines. Do not plant large trees near the house, except enough on the sunny side for shade.

Plant shrubs and small trees twice as thick as they should be when fully grown. This will make a good showing at once, and when the growth of the plants has made them too thick, some should be taken out. It will not do to plant so little that years must elapse before a fine effect can be produced, but, by planting a surplus at first, they can gradually be taken out.

**Vines** Should be planted near to and allowed to climb upon and about the house, or trained on posts, trellises, arbors or stakes placed in suitable locations on the lawn.

Groups of trees and shrubs possessing bright-colored bark or foliage, and groups of flowering trees and shrubs, are highly effective when in blossom, and should be more generally planted. Weeping trees are especially desirable on small lawns.

**New Varieties** We are constantly adding to our list of ornamentals, as well as in other departments. Before placing new varieties on the market, we give them a thorough trial in the nursery, and thus weed out undesirable varieties, offering only the best in each class.

**Varieties Not Listed** In every large, well conducted nursery there are many varieties of extra size, but in too small quantities to list in the catalogue, also new varieties which have not been thoroughly tested. If you wish any variety in a special size or variety not listed, write to us for special quotations, and if we have it in stock, we shall be pleased to supply.

## Upright Deciduous Trees

### AILANTHUS - Tree of Heaven

**A. Glandulosa**—From Japan. A lofty, rapidly growing tree, with long, elegant, feathery foliage, free from all diseases and insects. One of the most distinct of ornamental trees.

### ASH - *Fraxinus*

**American White Ash** (*F. Americana*)—A well known native tree; tall, very straight, with broad, round head and dense foliage.

**Green Ash** (*F. Lanceolata*; *F. Viridis*)—A tree of medium size, with slender, spreading branches forming a shapely round head; grows 50 to 60 feet high.

### BEECH - *Fagus*

**American Beech** (*F. Ferruginea*)—A large, stately native tree with smooth bark, spreading branches and symmetrical head; grows 80 to 100 feet high; one of the handsomest trees for lawns or streets.

**Purple Leaved Beech** (*F. Purpurea*)—Originated in Germany. An elegant, vigorous tree, growing 50 to 60 feet high; the foliage in spring is a deep purple, changing to crimson in the fall.

### BIRCH - *Betula*

**European White Birch** (*B. Alba*)—Remarkable for its elegance. A graceful tree with silvery bark and slender branches; quite erect when young, but afterwards assumes an elegant drooping habit, rendering it very effective for landscapes or lawns.



European White Birch

**Purple-Leaved Birch** (*B. Atropurpurea*)—A variety possessing the vigorous habit of the birches and having purple foliage; branches slightly pendulous.

### CATALPA

**Catalpa Bungei** (Umbrella Tree)—A remarkable species forming a dense, round umbrella-like head; makes a beautiful awn tree when grafted or budded on a high stem.

**Hardy Catalpa** (*C. Speciosa*)—A variety which is said to have originated in the West; it is very hardy and a rapid grower and is being extensively planted for commercial purposes; has broad, deep green leaves and beautiful large blossoms, making it a highly ornamental tree for lawn or street. Valuable for planting in groves for growing poles, posts and railroad ties.

### CRAB - *Pyrus*

**Bechtel's Double Flowering Crab** (*P. Augustifolia*)—One of the most beautiful of the flowering crabs; tree of medium size, covered in early spring with large, beautiful, fragrant flowers of a delicate pink color; very popular for lawns, as it blooms when quite young.

### DOGWOOD - *Cornus*

**White Flowering Dogwood** (*C. Florida*)—Grows from 20 to 25 feet high; spreading, irregular form; flowers produced in spring before the leaves appear, about  $3\frac{1}{2}$  inches in diameter, white and showy, very durable, lasting two weeks; foliage is a grayish-green, glossy and handsome, turning to deep red in fall; a valuable tree for ornamental planting.



Catalpa Bungei



American Elm

ELM - *Ulmus*

**American White Elm** (*U. Americana*)—A magnificent tree growing 80 to 100 feet high, with drooping, spreading branches; one of the grandest of our native trees; makes a beautiful lawn or street tree.

**Huntingdon Elm** (*U. Huntingdoni*)—A very handsome tree of erect habit, rapid, vigorous growth; bark clean and smooth. One of the finest of this family.

**Red or Slippery Elm** (*U. Fulva*)—Not so large as the American; foliage larger and head more open; inner surface of bark used extensively for medicinal purposes.

HACKBERRY - *Celtis*

**American Nettle Tree** (*C. Occidentalis*)—A rare native tree with numerous slender branches which spread horizontally, and thick rough bark; apple-like foliage, but more pointed and a bright shiny green; a very desirable tree for street planting.

KENTUCKY COFFEE TREE - *Gymnocladus*

A very ornamental, hardy tree of upright, rapid growth, with rough bark and coarse branches; foliage of a bluish-green color; flowers white followed by long pods. The name coffee tree comes from the fact of the seeds in the pods having been used by early settlers as a substitute for coffee.

## KOELREUTERIA

**Varnish Tree** (*K. Paniculata*)—A small, hardy, round headed tree with fine lobed leaves and large panicles of showy yellow flowers the latter end of July; leaves change in the fall to a fine yellow; grows 25 to 30 feet high.

LARCH - *Larix*

**American Larch** (*L. Americana*)—A tall tree, forming a pyramidal head; bark reddish-brown, branches slender; leaves long and slender, of a light blue color; canes small and oval; makes a very beautiful lawn tree, and is also serviceable as a wind-break.

**European Larch** (*L. Europea*)—A native of the Alps of the south of Europe; an elegant growing, pyramidal tree; valuable for timber.

LINDEN - *Tilia*

**American Linden or Basswood** (*T. Americana*)—Grows about 60 feet high, rapid growing, large size; forming a broad, round-topped head; leaves broadly oval, dark green above light green underneath; flowers are creamy-white, fragrant; a splendid street or lawn tree.

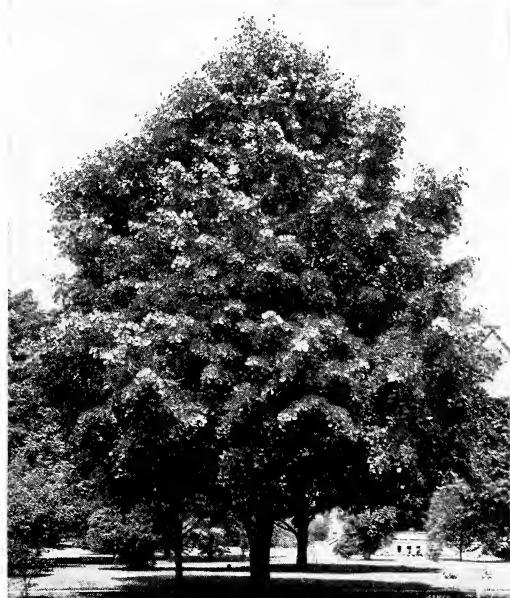
**European Linden** (*T. Europea*)—A very fine pyramidal tree of large size with large leaves and fragrant flowers; the leaves change in the fall to beautiful tones of yellow and brown.

**European Broad Leaved Linden** (*T. var. platyphylla*)—A tree about the same size as above, but distinguished by its larger and rougher leaves and more regular growth.

**Silver Leaved Linden** (*T. Argentea*)—Showy, heart-shaped foliage; light green above and silvery underneath; grows about 40 feet high; its handsome form and foliage make it one of the best of our ornamental trees.

LOCUST - *Gleditschia*

**Honey Locust** (*G. Tricanthos*)—A rapid-growing native tree with powerful spines and delicate foliage; the greenish flowers appearing in early summer are followed by flat pods 8 to 10 inches long; used extensively for hedges.



American Linden



Ash-Leaved Maple

**LOCUST or ACACIA - Robinia**

**Black or Yellow Locust** (*R. Pseud-acacia*)—A native tree of large size, rapid growth and valuable for timber as well as ornamental; flowers are white or yellowish, very fragrant and appear in June.

**MAGNOLIA**

**Cucumber Tree** (*M. Acuminata*)—A majestic, pyramidal tree growing to a height of 90 feet, with large, bluish-green leaves 6 to 8 inches long; flowers yellowish-white; fruit when green resembles a cucumber.

**Soulang's Magnolia** (*M. Soulangeana*)—A large shrub or small tree; leaves dark green, expanding after the flowers have fallen; flowers large, cup-shaped, white flushed with rosy pink and quite fragrant.

**MAPLE - Acer**

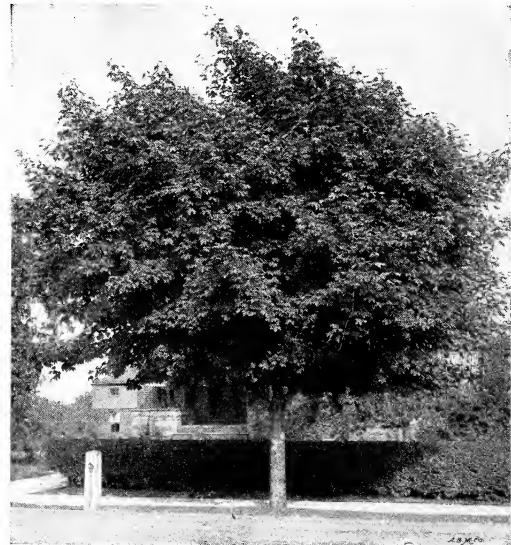
**Box Elder or Ash Leaved Maple** (*A. Negundo*)—Large, spreading tree of rapid growth, 70 feet high; foliage smaller than in other maples; very frequently planted for wind-breaks and timber; very hardy.

**Norway Maple** (*A. Platanoides*)—A large, handsome tree, with broad, deep green foliage; has a very compact growth; attains a height of 100 feet; a valuable tree for parks, lawns or streets.

**Schwedler's Maple** (*A. Platanoides Schwedlerii*)—A beautiful variety with very large bronzed leaves and young shoots of the same color; a vigorous grower and a most effective ornamental tree; grows about 50 feet high.

**Siliver Leaved or Soft Maple** (*A. Dasycarpum*)—A rapid growing tree of large size, irregular, rounded form; foliage bright green above and silver beneath; a favorite street and park tree; about the same height or taller than Norway.

**Sugar or Hard Maple** (*A. Saccharum*)—A well known native tree, valuable both for the production of sugar and wood; very desirable as an ornamental shade tree.



Norway Maple

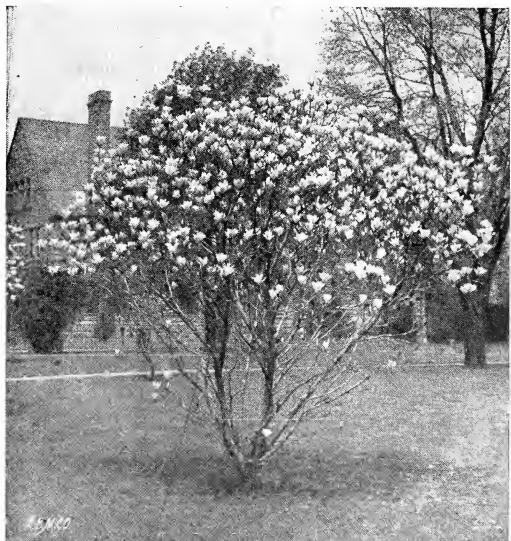
**Scyamore Maple** (*A. Pseudo Platanus*)—A native of Europe; leaves large, deep green and smooth; bark smooth and ash-gray color; rapid upright growth; a beautiful tree for street planting.

**Wier's Cut Leaved Maple** (*A. Wierii Lacinatum*)—A variety of the silver-leaved and one of the most beautiful, with cut or dissected foliage; rapid growth; shoots tender and drooping; ranks among the best as an attractive lawn or street tree.

**MULBERRY - Morus**

**Russian Mulberry** (*M. Alba Tartarica*)—See Mulberries, page 20.

**White Mulberry** (*M. Alba*)—See Mulberries, page 20.



Magnolia Soulangiana



Pin Oak

**MOUNTAIN ASH - *Sorbus***

**European Mountain Ash** (*S. Aucuparia*)—A fine tree with dense and regular head; covered from mid-summer to winter with great clusters of bright scarlet berries.

**Oak Leaved Mountain Ash** (*S. Quercifolia*)—A hardy tree of fine pyramidal habit; foliage deeply lobed, bright green above and downy underneath; one of the finest lawn trees.

**OAK - *Quercus***

**Pin Oak** (*Q. Palustris*)—A magnificent tree for lawn and street planting, with deep green foliage which changes to rich scarlet and yellow in the fall; a most shapely, graceful tree.

**Red Oak** (*Q. Rubra*)—Makes a tree of great height, 80 to 100 feet; a native of large size and rapid growth; leaves dark, dull green, turning to orange and brown in autumn; acorns very large; a beautiful specimen tree for park and street planting.

**Scarlet Oak** (*Q. Coccinea*)—A rapid growing pyramidal tree, especially beautiful in the fall, when the foliage changes from green to a bright scarlet; very symmetrical in outline.

**OLIVE - *Eleagnus***

**Russian Olive** (*E. Augustifolia*)—A very large shrub or small tree; leaves narrow, and silvery white; flowers yellow, fragrant; very hardy.

**PLUM - *Prunus***

**Purple Leaved Plum** (*P. Pissardi*)—Tree of medium size, wood and leaves dark purple; fruit is also purple until ripened; a native of Persia; one of the most conspicuous ornamental trees.

**PERSIMMON - *Diospyros***

**American Persimmon** (*D. Virginiana*)—Native variety with round top head and spreading, often pendulous branches; foliage dark green, very dense; fruit over an inch in diameter, pale orange-yellow, with a whitish bloom; delicate flavor; very astringent until full ripe or after early frosts; makes a beautiful lawn tree.

**POPLAR - *Populus***

**Balm of Gilead** (*P. Balsamifera Candicans*)—A strong growing spreading native tree; esteemed for its vigor and hardiness; leaves are broad and heart-shaped, green above and rusty white beneath; makes a good street tree; perhaps the best of the poplars for shade.

**Bolles Silver Poplar** (*P. Alba Bolleana*)—A very compact, upright grower, with glossy leaves green above and silver underneath; one of the most desirable of the poplars.

**Carolina Poplar** (*P. Monilifera*)—Pyramidal in form and vigorous in growth; leaves large, glossy, pale to deep green; valuable for street planting on account of its rapid growth.

**RED BUD - *Cercis***

**Judas Tree or Red Bud** (*C. Canadensis*)—A medium size tree with large irregular head and perfect heart-shaped leaves; derives its name Red Bud from the profusion of delicate reddish-pink blossoms with which it is covered in early spring before the foliage appears; one of the finest ornamental trees.



Bolles' Silver Poplar

**SALISBURIA**

**Maiden Hair or Gingko** (*S. Adiantifolia*)—Very effective for lawns; foliage fern-like, yellowish-green marked with delicate, hair-like lines. The fruits which mature in the fall have a sweetish, risinous taste.

**SYCAMORE**

**American Sycamore or Plane Tree** (*P. Occidentalis*)—A well known tree, very common throughout the United States; leaves heart-shaped at base, the short lobes sharp pointed; branches are wide spreading.

**Oriental Plane or European Sycamore** (*P. Orientalis*)—A rapid growing, erect tree with bright green foliage; much more esteemed than the American variety as a shade tree; very desirable for parks, streets and lawns.

**THORN - *Crataegus***

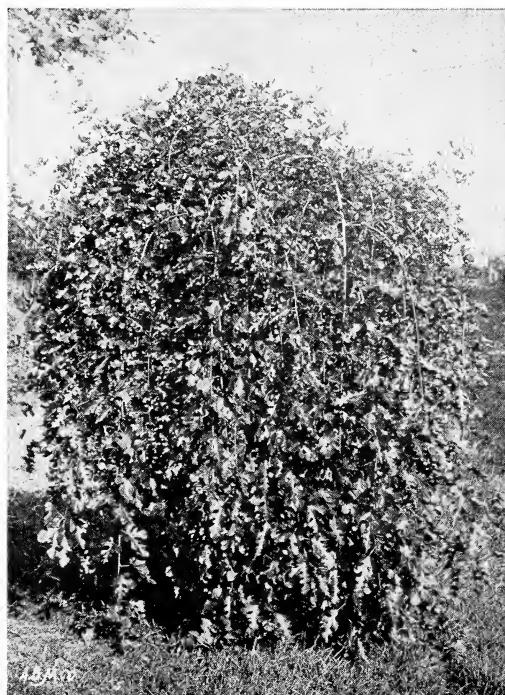
**Double White Thorn** (*Oxyacantha*, var. *alba flore pleno*)—A small tree, with spreading, spiny branches; very hardy and will thrive in any dry soil; has small double, white flowers; a very highly ornamental tree.

**Double Pink Thorn** (*C. Oxyacantha*, var. *rosea flore pleno*)—Same as above, but with flowers of a beautiful pink color.

**Paul's Double Scarlet** (*C. Oxyacantha* var. *coccinea flore pleno*)—Flowers a bright carmine red; superior to any of its color.

**TULIP TREE - *Liriodendron***

**Tulip Tree** (*L. Tulipifera*)—A magnificent rapid growing tree of pyramidal form attaining a height of 150 feet, with light green, glossy, fiddle-shaped leaves and greenish-yellow tulip shaped flowers; also known as white wood.



Weeping Mulberry

**WALNUT**

**Black**—(See page 16.)

**WILLOW - *Salix***

**Russian Golden** (*S. Vitellina aurea*)—At the present time one of the most planted of all the willows and a very important tree, both from an economical and ornamental standpoint. It makes a round topped tree of symmetrical form. One of its strongest ornamental features is the bright, clear golden-yellow bark which offers a pleasing contrast wherever it is used. The variety which is now generally grown under this name is quite distinct from that to which it was formerly given.

**Weeping Trees****BIRCH - *Betula***

**Cut-Leaved Weeping Birch** (*B. alba*, var. *pendula laciniata*)—Undoubtedly one of the most popular of all weeping or pendulous trees; tall and slender, graceful drooping branches, silvery-white bark, delicately cut foliage; makes an attractive specimen; growth vigorous.

**ELM - *Ulmus***

**Camperdown Weeping Elm** (*U. Scabra* var. *pendula*)—This forms one of the most picturesque of the drooping trees; forms a large, umbrella-like head, spreading many feet in every direction; very rapid grower, making a growth of several feet in a season; leaves are large, dark green and glossy and cover the tree with a dense mass of verdure.

**MOUNTAIN ASH - *Pyrus***

**Weeping Mountain Ash** (*P. Sorbus Aucuparia*, var. *pendula*)—Beautiful tree of rapid growth and decidedly pendulous and trailing habit. One of the most desirable of lawn trees.

**MULBERRY**

**Tea's Weeping Mulberry** (*M. Alba* var. *tatarica pendula*)—One of the most graceful and hardy weeping trees; forms a perfect umbrella-shaped head with long, slender, willowy branches drooping to the ground; will withstand the cold of the North and the heat of the South; in every way a most desirable tree.

**WILLOW - *Salix***

**American Weeping Willow** (*S. Purpurea*, var. *pendula*)—A dwarf, slender variety; grafted 5 to 6 feet high, it makes one of the most ornamental of small weeping trees; more hardy than the Babylonian.

**Babylonian Weeping Willow** (*S. Babylonica*)—The well known, common weeping willow; makes a large tree covered with drooping branches.

**Kilmarnock Weeping Willow** (*S. Caprea*, var. *pendula*)—A distinct variety having reddish shoots and large glossy foliage; grafted about five feet from the ground it makes a very desirable small lawn tree, with the branches drooping gracefully to the ground; is well suited to planting in cemetery lots or small enclosures; hardy and of vigorous growth.



ABMCO

## Evergreens

### ARBORVITAE - *Thuya*

**American Arbor Vitae** (*T. Occidentalis*)—A beautiful native tree commonly known as the white cedar, valuable for screens and hedges.

**Globe** (*T. globosa*)—Very compact form and dense foliage.

**Golden Arbor Vitae** (*T. Occidentalis*, var. *Aurea*)—Broad, bushy grower with deep golden foliage; very ornamental.

**Berkman's Golden Arborvitae** (*T. Biota Aurea Nana*)—A very dwarf, compact shrub with golden yellow foliage, very popular and one of the best evergreens.

**Parson's Arbor Vitae** (*T. Occidentalis*, var. *compacta*)—Dwarf, compact habit, deep green foliage.

**Pyramidal Arbor Vitae** (*T. Occidentalis*, var. *pyramidalis*)—A densely branched variety forming a perfect column; holds its shape without trimming or pruning; hardy and will succeed anywhere the American Arbor Vitae does; a very ornamental type for many kinds of planting.

**Siberian Arbor Vitae** (*T. Occidentalis*, var. *Siberica*)—Exceedingly hardy and keeps its color well into winter; compact and pyramidal; of great value for lawns, screens and hedges.

### FIR - *Abies*

**Balsam Fir** (*A. Balsamea*)—A very erect, regular pyramidal tree with dull, dark green foliage; rapid growth and very hardy.

**Concolor Fir** (*A. Concolor*)—A very beautiful species with yellow bark on the young branches; leaves green, arranged in double rows; equal in color and beauty to the Colorado Blue Spruce.



American Arbor Vitae

**JUNIPER - *Juniperus***

- Irish Juniper** (*J. Communis*, var. *Hibernica*)—A distinct and beautiful variety of erect, dense conical outline, resembling a pillar of green.
- Red Cedar** (*J. Virginia*)—A well known native tree; varies much in habit and color of foliage; very attractive in winter when the golden bronze of the young growth contrasts with the dark green of the older.
- Savin Juniper** (*J. Sabina*)—A dwarf, spreading shrub with trailing branches; thrives in poor soils and is valuable for rock work.
- Swedish Juniper** (*J. Communis*, var. *suecica*)—A small sized, handsome pyramidal tree with yellowish-green foliage; quite hardy.

**PINE - *Pinus***

- Austrian or Black Pine** (*P. Austriaca*)—A native of Syria; tree robust, hardy and spreading; leaves long, stiff and dark green; rapid growth; very valuable for this country.
- Jack Pine** (*P. Divaricata*)—The most northern of all American pines; valued for its extreme hardiness and vigor; withstands long droughts and hot dry winds; of rather irregular and shrubby growth; foliage bright green, needles short and stiff.
- Mugho Pine** (*P. Mugho*) (Dwarf Mountain Pine)—Very distinct, leaves short, stiff, a little twisted and thickly distributed over the branches; does not grow tall, but spreads over the ground, generally assuming a globular form; very dense.
- Scotch Pine** (*P. Sylvester*)—A native of Europe; a fine, robust, rapid-growing tree; stout, erect shoots; silvery-green foliage; hardy.
- White Pine** (*P. Strobus*)—The most ornamental of all our native pines; foliage light, delicate silvery green; will grow in the poorest of sandy soil; long-lived tree, rapid grower.

**White Pine****SPRUCE - *Picea***

- Black Hills Spruce** (*P. Nigra*)—A beautiful tree with drooping branches and fine yew-like foliage; perfectly hardy.
- Colorado Blue Spruce** (*P. Pungens*)—One of the most beautiful and hardy of all the spruces; in form and habit similar to the White Spruce; foliage a rich light bluish-green.
- Douglas' Spruce** (*A. Douglasii*)—A native of Colorado; large, conical form; branches spreading, horizontal; leaves light green above, silvery white below.
- Engelmann's Spruce** (*P. Engelmanni*)—Resembles the Colorado Blue Spruce in general effect; foliage coloring from bluish-green to steel blue; needles are not as long and are more soft and flexible.
- Hemlock Spruce** (*P. Canadensis*)—A graceful and beautiful native tree, which has drooping branches and delicate dark green foliage, distinct from all other trees; a handsome lawn tree, and makes a very ornamental hedge.
- Koster's Blue Spruce** (*P. Pungens*, var. *Kosteriana*)—A type of the Colorado Blue Spruce; it is the highest colored and most striking of all the Evergreens for lawn planting; the foliage is a rich and beautiful silvery-blue; very hardy.
- White Spruce** (*P. Alba*)—A native tree of medium size and pyramidal form; bark light colored and foliage silvery-gray; very hardy variety.

**Colorado Blue Spruce**



Hydrangea Arborescens Grandiflora Alba

## Ornamental Shrubs

### ACACIA - Robinia, Flowering Locust

**Rose Acacia (R. Hispida)**—A native species of spreading, irregular habit; long clusters of pea-shaped, rose-colored flowers in June and at intervals throughout the season; foliage a light green.

### ALTHEA - Hibiscus, Rose of Sharon

The **Althea**, Rose of Sharon, blooms in August and September, growing many rich shades of all colors. This variety is not very hardy in the north except when they are given protection, but they are easily protected, easily cultivated, and bloom until frost. This plant makes a very handsome hedge, also is very attractive for mass planting and shows up nicely planted alone. They come in double and single flowers in the following colors: Red, rose, blue, purple, white, striped and variegated leaf.

### ALMOND - Amygdalus

**Pink Double Flowered Almond (A. Flore pleno Rosea)**—A vigorous, beautiful tree, covered in May with rose-colored blossoms like small roses; hardy.

**White Double Flowered Almond (A. Flore pleno Alba)**—Same as above except blossoms are pure and white.

### AZALEA

**A. Mollis**—A hardy species from Japan, and one of the most valuable flowering shrubs; flowers large and showy yellow and different shades of red.

**Ghent Azalea (A. Pontica)**—Grows three to four feet high; small hairy leaves and yellow, red and orange flowers.

### BARBERRY - Berberis

**Canadian Barberry (B. Canadensis)**—A native variety of shrub or small tree with handsome foliage and yellow flowers in May, succeeded by bright colored fruit; very ornamental in the fall and winter.

**European Barberry (B. Vulgaris)**—A handsome shrub with yellow flowers in May or June, followed with orange-scarlet fruit.

**Japanese Barberry (B. Thunbergii)**—From Japan; of dwarf habit, small foliage, changing to a beautiful coppery red in the fall; is very ornamental when used as a hedge.

**Purple Leaved Barberry (B. Vulgaris, var. purpurea)**—Grows three to five feet high; foliage and fruit violet purple; very effective in groups or masses; yellow blossoms.



Thunberg's Barberry Hedge

**BUCKTHORN - *Rhamnus***

**R. Cartharticus**—A very fine, hardy vigorous shrub of European origin, with dark green foliage, white flowers and small black fruit; a popular hedge plant.

**CALYCANTHUS - Sweet Scented Shrub**

**C. Floridus**—A native species with double purple flowers, very fragrant, and the wood is also fragrant; foliage rich, dark green; blooms in June and at intervals afterward.

**CARAGANA - Siberian Pea**

**Siberian Pea Tree (C. Arborescens)**—A shrub or low tree with pea-shaped yellow flowers; hardy and useful for massing.

**CEPHALANTHUS**

**Button Bush (C. Occidentalis)**—A tall-growing native shrub with globe-shaped heads of white flowers in July.

**COLUTEA**

**Bladder Senna (C. Arborescens)**—A large shrub with small, delicate foliage, and yellow pea blossom shaped flowers in June, followed by reddish pods.

**CURRENT - *Ribes***

**Crimson Flowered Currant (R. Sanguineum)**—A native variety with deep red flowers, blooms early in the spring.

**Yellow Flowered Currant (R. Aureum)**—A native species with beautiful shining foliage and yellow flowers.

**DESMODIUM**

**Sweet Pea Shrub (D. Penduliflorum)**—A low growing shrub having rose-purple, pea-shaped blossoms in great profusion; blooms in September and continues until late October; tops die down after frost, but come up again in the spring; a valuable shrub for massing or borders.

**DEUTZIA**

**Double Flowered Deutzia (D. Crenata flore pleno)**—A very hardy shrub with luxuriant foliage and a profusion of double white flowers tinged with rose; produced in late June on long racemes; one of the most desirable in cultivation.

**Lemoine (D. Lemoinei)**—Flowers pure white; shrub dwarf and free flowering; excellent for forcing.

**Pride of Rochester**—Produces large double white flowers, tinged with rose; vigorous grower, profuse bloomer and one of the earliest to bloom.

**Slender Branched Deutzia (D. Gracilis)**—Dwarf habit; pure white; one of the first to bloom; fine for pot culture and winter blooming.

**DOGWOOD - *Cornus***

**European Red Dogwood (C. Sanguinea)**—A valuable shrub for grouping and massing; very ornamental in winter when the bark is blood red; foliage variegated in summer.

**Red Osier Dogwood (S. Stolonifera)**—Produces white flowers in early June; in winter young shoots are a blood red color.

**Variegated Leaved Dogwood (C. Elegantissima Variegata)**—Foliage pale yellow turning to a rose color in the fall; branches blood red.



Deutzia **Pride of Rochester**

**Siberian Dogwood**—Free growing, 6 to 10 feet tall, and very hardy; forms a small, handsome tree in some situations; its clusters of small, white flowers in early summer are very dainty, and its bark is a showy, dark red in winter. All the Siberian Dogwoods bear in early fall a profusion of whitish blue berries, making them distinctly ornamental after the flowers have gone.

**ELDER - *Sambucus***

**Common Elder (S. Canadensis)**—A large showy shrub, very ornamental in foliage, fruit and flowers, blossoming in June; flowers white; borne in large panicles; fruit reddish-purple berries in the fall.

**Cut-Leaved Elder (S. Nigra var. Laciniata)**—One of the best cut-leaved shrubs; a valuable variety with elegantly divided leaves.

**Golden Elder (S. Nigra, var. aurea)**—A handsome variety with golden-yellow foliage.

**Variegated-Leaved Elder (S. Nigra, var. variegata)**—The foliage is mottled with yellow and white; one of the best of the variegated leaved.

**ELEAGNUS**

**Russian Olive (E. Angustifolia)**—See page 27.

**Japanese Silver Thorn (E. Longipes)**—A shrub about six feet high; flowers yellowish-white and fragrant; fruit very ornamental with an agreeable, slightly acid flavor; one of the most desirable for lawns.



Forsythia Fortunei

**EXOCHORDA - Pearl Bush**

**Pearl Bush** (E. Grandiflora)—A fine shrub, producing large white flowers in May; one of the finest in its season.

**FORSYTHIA - Golden Bell**

**Fortune's Forsythia** (F. Fortuneii)—A beautiful shrub of medium size; flowers are a bright yellow and appear before the leaves; foliage deep green; best of the early flowering shrubs.

**F. Intermedia**—Flowers bright golden yellow; foliage glossy green; resembles the *Viridisima*, but harder; a valuable variety.

**F. Viridissima**—A fine hardy variety; leaves and bark deep green; flowers deep yellow; early bloomer.

**Weeping Forsythia** (F. Suspensa)—Resembles the Fortune in its flowers, but the growth is somewhat drooping.

**FRINGE TREES**

See Purple and White Fringe, page 37.

**HALESIA - Silver Bell**

**Silver Bell Tree** (H. Tetrapeta)—A beautiful large shrub forming a low wide head, profusely covered with a mass of small, snowy white flowers; blooms about the middle of May; foliage dark green; a valuable acquisition to any lawn.

**HONEYSUCKLE BUSH - Lonicera**

**Fragrant Bush Honeysuckle** (L. Fragrantissima)—A spreading shrub with deep green foliage and fragrant small flowers, which appear before the leaves; bush erect in growth.

**HONEYSUCKLE—Continued.**

**Bella Albida Honeysuckle**—Flowers are white, with bright red fruit in great profusion. Very fine.

**Morrowii Honeysuckle**—A fine variety from Japan; valuable for its handsome red fruit.

**Pink Tartarian Honeysuckle** (L. Tartarica rosea)—Pink flowers that make a lovely contrast with the foliage; planted with the Grandiflora, the two make a beautiful display.

**Pink Flowered Honeysuckle** (L. T. var. grandiflora)—Produces large, bright red flowers striped with white; blooms in June.

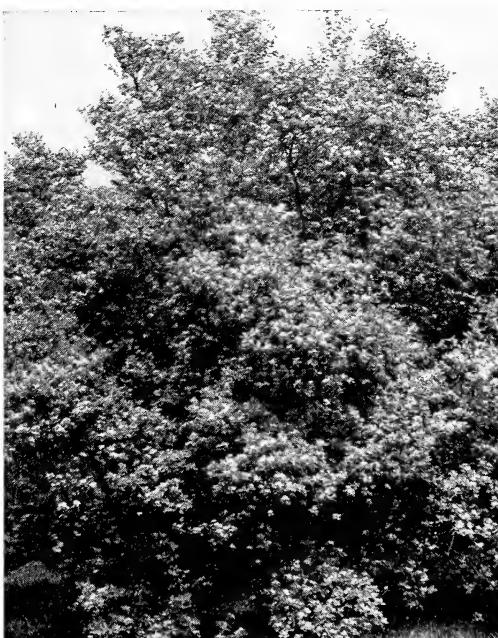
**Red Tartarian Honeysuckle** (L. T. var. rubra)—Blooms early in the spring; flowers a beautiful bright red.

**White Tartarian Honeysuckle** (L. T. var. alba)—Produces creamy white, fragrant flowers in May and June; forms a high bush.

**HYDRANGEA**

**Hardy Hydrangea** (H. Paniculata grandiflora)—A beautiful, tall shrub, with leaves of bright, shiny green; flowers borne in huge panicles from 8 to 12 inches long, light pink, changing to brown later in the fall; blooms in August and September; can be grown in tree form successfully and makes a very desirable lawn ornament.

**White Flowered Hydrangea** (H. Arbor-escens Alba Grandiflora)—Resembles the *Paniculata* in general form and shape of flowers; borne in panicles of pyramidal shape from 5 to 8 in. in diameter and 8 to 10 in. long; changing to a greenish white; one of the best.



Bush Honeysuckle, Morrowii

**JAPAN QUINCE - Cydonia**

**Scarlet Japan Quince** (*C. Japonica*)—One of the best flowering shrubs; flowers a bright scarlet crimson, borne in great profusion in early spring; foliage retains its color of bright, glossy green the entire summer; hardy; make good hedge plants.

**KERRIA - Corchorus**

**Globe Flower** (*C. Japonica*)—A slender green branched shrub, 5 to 6 feet high, with globe-shaped yellow flowers from July to October; very ornamental.

**LILAC - Syringa**

The lilacs are well known, beautiful shrubs, indispensable in every collection.

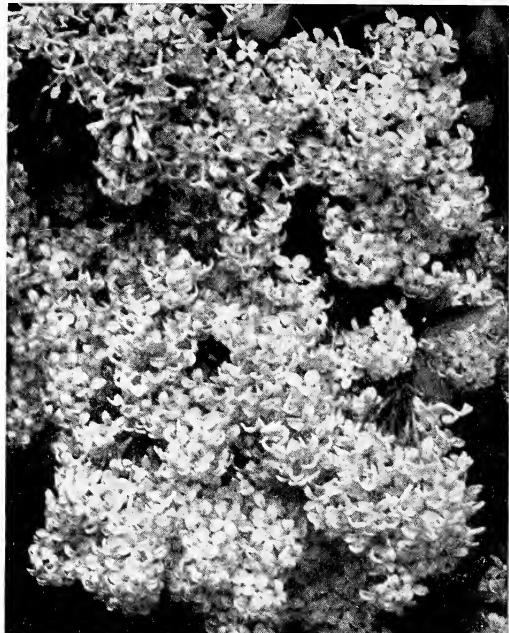
**Hungarian Lilac** (*S. Josikea*)—A fine, distinct species of tree-like growth, dark, shining leaves and purple flowers in June. A very desirable variety.

**Japan Tree Lilac** (*S. Japonica*)—A species from Japan, becoming a good sized tree; foliage dark glossy green; flowers creamy white; a late bloomer.

**Persian Lilac** (*S. Persica*)—Grows 4 to 6 feet high, foliage small and flowers a bright purple.

**Persian White Lilac** (*S. Persica*, var. *Alba*)—Delicate white, fragrant flowers, shaded with purple.

**Persian Red Lilac** (*S. Rothomagensis*, var. *rubra*)—Reddish flowers borne in panicles of great size and very abundant.



**Persian White Lilac**

**Purple Lilac** (*S. Vulgaris*)—The well known purple variety; always a standard sort.

**Red Lilac** (*S. Vulgaris rubra*)—Flowers a reddish-violet color.

**White Lilac** (*S. Vulgaris alba*)—Too well-known to need description; flowers white and fragrant.

**Single Lilacs**

**Charles X**—A strong, rapid growing variety, large shining leaves; flowers reddish purple.

**Marie LeGraye**—Large panicles of white flowers; the finest white lilac.

**Souvenir de Ludwig Spaeth**—Flowers a dark purple borne in large panicles; the best of the dark varieties.

**Double Lilacs**

**Alphonse Lavalle**—Flowers a bluish-lilac.

**Belle de Nancy**—Flowers pink, with a white center.

**Mme. Abel Chatenay**—Flowers white, borne in compact panicles.

**Mme. Casimir Perier**—Flowers white, borne in large, graceful panicles.

**President Grevy**—Panicles large, pale blue and very double.

**MAHONIA - Ashberry**

**Holly Leaved Mahonia** (*M. Aquifolium*)—A native shrub, very handsome, with purplish, shining, prickly leaves and bright yellow flowers in May, followed by bluish berries; very ornamental.

**PURPLE FRINGE or SMOKE TREE - Rhus**

**R. Cotinus**—A valuable ornamental shrub; has curious fringe or hair-like flowers that cover the whole tree, giving the appearance of mist or smoke; wide spreading habit which requires some room to grow to best advantage.



ABM. CO.

**Fringe Tree—Rhus Cotinus.**



California Privet

PLUM - *Prunus*

**Double Flowered Plum** (*P. Triloba*)—A very desirable addition to the hardy shrubs; flowers double and delicate pink, and thickly set on long, slender branches; blooms in May.

**Purple Leaved Plum** (*P. Pissardi*)—See ornamental trees on page 27.

PRIVET - *Ligustrum*

**Amoor River Privet** (*L. Amurense*)—A valuable ornamental shrub for hedges and borders; very hardy; foliage glossy green and holds its color almost the entire year; will stand shearing to any extent.

**California Privet** (*L. Ovalifolium*)—The well-known variety; vigorous and hardy; deep glossy green; useful for hedges and borders.

**English Privet** (*L. Vulgaris*)—Foliage narrow; showy white flowers in June, followed by fruit.

**Chinese Privet** (*L. Ibota*)—A native of China and Japan; foliage long and shining; flowers large, white and fragrant; a distinct sort, valuable for its flowers and foliage.

**Regel's Privet** (*L. Regelianum*)—A dense, low shrub with spreading branches; pendent at the end; a very graceful bush for hedges; needs very little trimming.

**Purple Fringe** (*R. Cotinus*)—See page 37.

SNOWBALL - *Viburnum*

**Common Snowball** (*V. Opulus Sterilis*)—Grows 6 to 8 feet high, the old-fashioned snowball; its large globular clusters of pure white flowers are produced in May and June and make a very attractive appearance.

## SNOWBALL—Continued.

**High Bush Cranberry** (*V. Opulus*)—It has handsome, broad foliage of a shining dark green color, changing to rich coppery tints; flowers are white and very conspicuous; the fruit is a brilliant scarlet and hangs in long pendent clusters nearly all winter. A very desirable ornament to any lawn.

**Japan Snowball** (*V. Plicatum*)—Foliage a handsome olive-green; flowers are larger and more white than the Common Snowball; borne in dense heads; very ornamental.

**V. Lantana**—6 to 8 feet. Large-growing shrub with soft, heavy leaves; large clusters of white flowers in May, followed by red berries that turn black as they ripen; retains its foliage late.

SNOWBERRY - *Symporicarpus*

**Coral Berry** (*S. Vulgaris*)—A slender-branched upright shrub, valuable for planting in shady places, as the foliage is very persistent; the fruit is a purplish-red and hangs on well into winter; flowers small and rose colored.

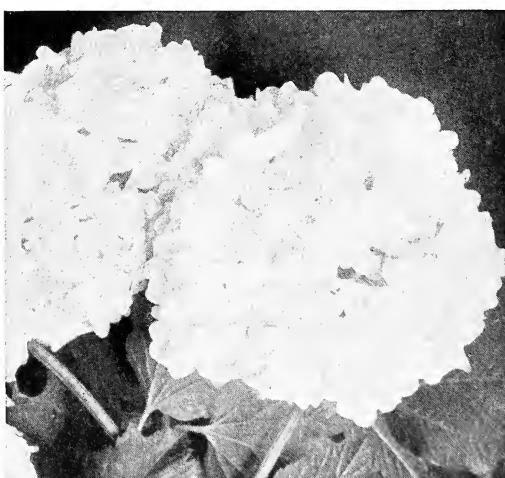
**Snowberry** (*S. Racemosus*)—Same as above except the berries are a pure, snow white; flowers rose colored but larger.

SUMACH - *Rhus*

**Cut Leaved Staghorn Sumach** (*R. Typhina laciniata*)—A showy broad-headed shrub with large, long, deeply cut foliage, light green in color, changing to shades of red and yellow in the fall; the new growth is clothed with a peculiar down, giving an appearance of the growing horns of a deer; the bark below is a rich orange color.

**Cut Leaved Sumach** (*R. Glabra*, var. *laciniata*)—A variety of the Smooth Sumach, with deeply cut, fern-like foliage.

**Smooth Sumach** (*R. Glabra*)—A shrub 8 feet high, with handsome green foliage, changing to beautiful autumn tints; showy spike of crimson fruit.

Snowball (*Viburnum opulus sterilis*)

**SPIREA - Meadow Sweet**

**S. Arguta**—Of dwarf habit, spreading head; flowers clear white; the best of the very early flowering white varieties; blooms in May.

**Ash Leaved** (*S. Sorbifolia*)—A vigorous grower with foliage similar to the Mountain Ash, and long spikes of beautiful white flowers; blooms in July.

**Billard's Spirea** (*S. Billardi*)—Flowers are rose color; blooms nearly all summer.

**Bridal Wreath** (*S. Prunifolia flore pleno*)—Foliage a dark, shining green, changing to autumn tints in the fall; flowers double, pure white, and are borne the entire length of the twigs; one of the most popular varieties.

**S. Bumalda**—A handsome variety from Japan; dwarf habit and vigorous growth; foliage narrow; flowers rose-colored and borne in great profusion; blooms a long time.

**Anthony Waterer**—A fine dwarf Spirea with dark crimson flowers.

**Douglas' Spirea** (*S. Douglasi*)—A beautiful variety with spikes of deep rose colored flowers in July and August.

**Fortune's Dwarf White Spirea** (*S. callosa alba*)—A white flowering variety of dwarf, symmetrical form; keeps in flower all summer; a valuable sort.

**Golden Leaved Nine Bark** (*S. Opulifolia*, var. *aurea*)—A beautiful variety with golden-yellow foliage and double white flowers in June.

**Nine Bark** (*S. Opulifolia*)—One of the most vigorous growers; foliage light green; flowers white and produced in great profusion.

**Thunberg's Spirea** (*S. Thunbergii*)—Dwarf habit and rounded graceful form; branches slender and drooping; flowers pure white and borne the entire length of the twigs; foliage narrow and long, turning to orange scarlet in the fall.

**Van Houttei Spirea** (*S. Van Houttei*)—This is undoubtedly the most popular of all the varieties; foliage a rich green, changing to beautiful tints in the fall; in blooming season the bush is a perfect mass of pure white flowers, the branches bending to the ground; an indispensable ornament for lawns and hedges.

**TAMARIX**

**T. Africana**—A beautiful shrub with small leaves, similar to the Juniper; flowers are tiny, small and delicate, borne on long spikes; blooms in May.

**T. Amurensis**—Growth is slender and graceful with silvery foliage; pink flowers borne on short spikes on the young growth.

**T. Tetrandra Purpurea**—A tall shrub with reddish-brown bark and slender, spreading branches; purplish pink flowers.



*Spirea Van Houttei*

**MOCK ORANGE - Philadelphus**

**Garland Syringa** (*P. Coronarius*)—A well-known shrub with pure white, very fragrant flowers; one of the first to bloom.

**Golden Leaved Syringa** (*P. Coronarius*, var. *Aurus*)—A handsome variety with golden-yellow foliage; keeps its color the entire season; is splendid for grouping with other varieties for pleasing effect.

**Gordon's Syringa** (*P. Gordonianus*)—A vigorous grower and profuse bloomer; flower white, fragrant and a late bloomer.

**Large Flowered Syringa** (*P. Grandiflorus*)—Has very large, showy flowers, somewhat fragrant; bark reddish; a rapid grower.

**Lemoine's Syringa** (*P. Lemoinei*)—A graceful shrub with very rich foliage and large, pure white fragrant flowers in June.

**WHITE FRINGE - Chionanthus**

**White Fringe or Fringe Tree** (*C. Virginica*)—A desirable ornamental shrub of easy cultivation; dark green foliage; flowers pure white, having narrow, fringe-like petals; blooms in May and June.

**WEIGELA - Diervilla**

The Weigelas are shrubs of erect habit while young, but gradually spread and droop as they acquire age; flowers are large, trumpet-shaped, of all shades and colors; very effective for grouping and borders; blossoms are produced in June and July.

**D. Candida**—Flowers pure white, produced in June and continue to bloom nearly all summer.

**D. Eva Rathke**—Flowers a brilliant crimson; a beautiful, clear, distinct shade.

**D. Floribunda**—A fine variety; flowers a dark red, and a profuse bloomer.

**D. Rosea**—An elegant variety with fine rose colored flowers appearing in June.

**D. Nana Variegata**—Of dwarf habit and clearly defined silvery-variegated leaves; flowers rose colored.

**D. Van Houttei**—Flowers are a rich shade of carmine and are produced profusely.



Hall's Japan Honeysuckle

## Hardy Vines

### AKEBIA

**Akebia Quinata**—A Japanese variety of climbing shrub with large leaves and white, purple centered flowers.

### AMPELOPSIS

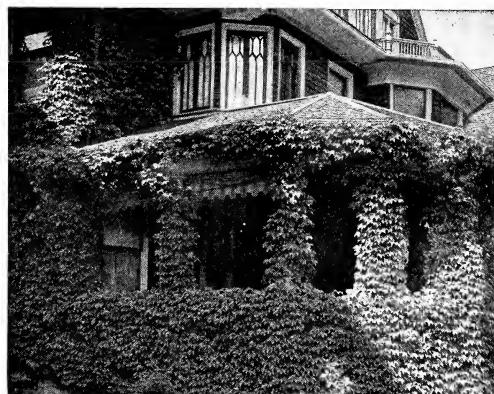
**American Ivy or Virginia Creeper** (*A. quinquefolia*)—One of the finest vines for covering walls, verandas or trunks of trees; foliage green, turning to a rich crimson in autumn; a rapid grower and quickly fastens to anything it touches.

**Boston Ivy (Veitchii)**—Leaves smaller than the American; forms a dense sheet of green as leaves overlap each other; is a little difficult to start, but when once established requires no further care; foliage changes to a crimson scarlet in the fall; very valuable for covering brick or stone structures, rockeries, walls, etc.

**Engelman's Ivy or Woodbine** (*A. quinquefolia*, var. *Engelmanni*)—A type of *quinquefolia* which has long been desired. It has shorter joints and smaller and thicker foliage. It is better equipped with tendrils, by which it will climb walls of stone or brick as closely as the *Veitchii* (Boston Ivy). It should be planted in the central and northwestern states, in place of *Veitchii*, as it is perfectly hardy, withstanding heat and cold much better.

### ARISTOLOCHIA

**Dutchman's Pipe** — A native species of climbing habit and rapid growth, light green foliage, and pipe-shaped yellowish brown flowers.



Ampelopsis Veitchii

### BEGONIA - Tecoma

**Trumpet Creeper (B. Radicans)**—A hardy climbing plant with large trumpet-shaped scarlet flowers appearing in August.

**Large Flowered Trumpet Creeper (B. Radicans, var. Grandiflora)**—A beautiful variety with very large flowers, salmon colored, yellow center and striped with red.

### CELASTRUS - Bitter Sweet

**Climbing Bitter Sweet (C. Scandens)**—A native climber with fine large leaves, yellow flowers and clusters of capsule orange fruit; a rapid grower.

### CINNAMON VINE - Dioscorea

**Chinese Cinnamon Vine (D. Batatas)**—A beautiful, hardy, very fragrant, immensely rapid growing vine; requires no attention and will continue to grow for years; one of the most valuable.

### CLEMATIS - Virgin's Bower

A beautiful class of hardy climbers, many of the varieties have flowers 5 to 6 inches in diameter. They are very valuable for training around and over pillars, verandas, fences, rock work, etc.

#### Large Flowering Varieties

**Duchess of Edinburg**—Fine, large, double white flowers; blooms freely.

**Jackmani** — Immense flowers of an intense violet-purple color; bloom continually all summer. Perhaps the best known Clematis.



Wistaria Chinensis

## CLEMATIS—Continued.

**Henryi**—Flowers creamy-white and very large. A free bloomer.

**Madam Edouard Andre**—Flowers are a beautiful shade of crimson; a free bloomer.

**Ramona**—A vigorous grower and perpetual bloomer; flowers a deep rich lavender.

## Small Flowering Varieties

**Coccinea**—Flowers thick, bell-shaped, of a bright coral-red color; blooms profusely.

**Paniculata**—Probably the most popular of the small flowering sorts; vine is a rapid grower with glossy green foliage; in September the flowers appear in a perfect mass of white, giving the appearance of a bank of snow; the fragrance is most delicious and penetrating.

**Virginiana** (American White Clematis)—Produces immense quantities of small white flowers in August; a very rapid climber.

ENGLISH IVY - *Hedera*

The old Evergreen Ivy. Should be planted on the north side of walls or buildings to protect from the sun in winter.

HONEYSUCKLE - *Lonicera*

**Chinese Twining Honeysuckle** (*L. Japonica*)—

A well-known vine, holding its foliage nearly all winter; blooms in July and September; very fragrant. Also known as the Evergreen Honeysuckle.

**Hall's Japan Honeysuckle** (*L. Halleana*)—A strong, vigorous vine with pure white flowers, changing to yellow; foliage remains green well into winter; very fragrant and covered with flowers almost the entire season; one of the best bloomers.

**Japan Golden Leaved Honeysuckle** (*L. Aurea reticulata*)—A handsome variety, with foliage beautifully netted or variegated with yellow.

**Monthly Fragrant Honeysuckle** (*L. Periclymenum*, var. *Belgica*)—Blooms all summer; flowers red and yellow and very fragrant.

**Scarlet Trumpet Honeysuckle** (*L. Sempervirens*)—One of the handsomest; strong, rapid grower; flowers bright scarlet, not much odor.

**Yellow Trumpet Honeysuckle** (*L. Flava*)—A strong native vine with brightest orange-yellow trumpet-shaped flowers.

## MADEIRA VINE

**Madeira Vine**—A rapid climbing plant, with thick, glossy green foliage and fine white, fragrant flowers.

MATRIMONY VINE - *Lycium*

**Chinese Matrimony Vine** (*L. Sinensis*)—A creeping or trailing vine; foliage a grayish-green; flowers appear in June and continue blooming until September; color varies from pink to purple; fruits are a bright crimson and make a beautiful contrast with the green foliage; valuable for trellises and fences.

SILK VINE - *Periploca*

**Silk Vine** (*P. Graeca*)—Beautiful, rapid climber, splendid for training around pillars, trees or other tall supports; grows to 30 or 40 feet; foliage a smooth, glossy green and very showy; flowers a purplish brown, borne in clusters.

## WISTARIA

**American Purple Wistaria** (*W. Magnifica*)—Flowers are borne in dense, drooping clusters of a pale blue color. Vigorous, hardy, and a rapid grower.

**Chinese Purple Wistaria** (*W. Sinensis*)—One of the best of the Wistarias; rapid growing and elegant, attaining 15 to 20 feet in a season; flowers a pale-blue, borne in long, pendulous clusters in May and June.

**Chinese White Wistaria** (*W. Sinensis*, var. *alba*)—Same as the Chinese Purple except the flowers are pure white; beautiful variety.



Clematis Paniculata



Rhododendrons

## Evergreen Shrubs

### BOX - *Buxus*

**Dwarf Box** (*Buxus*, var. *Suffruticosa*)—This variety is used extensively for low borders and is very hardy; can be grown in tubs or large pots for porch or other decoration; a slow grower, but lasts for years. Its suitability to so many places as a decorative plant, and the small amount of care it requires, makes it very desirable for the home grounds.

### RHODODENDRON - *Rosebay*

The Rhododendrons are magnificent Evergreen shrubs, producing beautiful masses of flowers in various colors. Should not be planted in soil containing limestone or heavy clay, as they will not succeed; where this exists, beds of especially prepared soil should be made. We can furnish the leading hardy varieties in both grafted and seedling stock.

## Deciduous Hedge

### BARBERRY - *Berberis*

**Japanese Barberry** (*B. Thunbergii*)—A low, spreading bush; small branches covered with small sharp thorns and in spring with small yellow flowers, succeeded by bright scarlet berries; foliage changes in autumn to shades of scarlet and gold; makes dense, thick hedge.

**Purple** (*B. vulgaris purpurea*)—An upright, prickly stemmed shrub, having dark purple leaves. Planted among other shrubbery, it is in striking contrast. Hardy and quick grower. Flowers in May.

**Common** (*B. vulgaris*)—Foliage and fruit purple. Very pretty.

### JAPAN QUINCE - *Pyrus Japonica*

**Scarlet Japan Quince** (*Japonica*, var. *rubra*)—A beautiful flowering shrub, suitable for hedges, thorny enough to form a good defense; flowers a bright scarlet-crimson, in great profusion in the early spring, making a very attractive appearance.

### Altheas

### Lilac

### Philadelphus

### Privet

### Roses

### Russian Olive

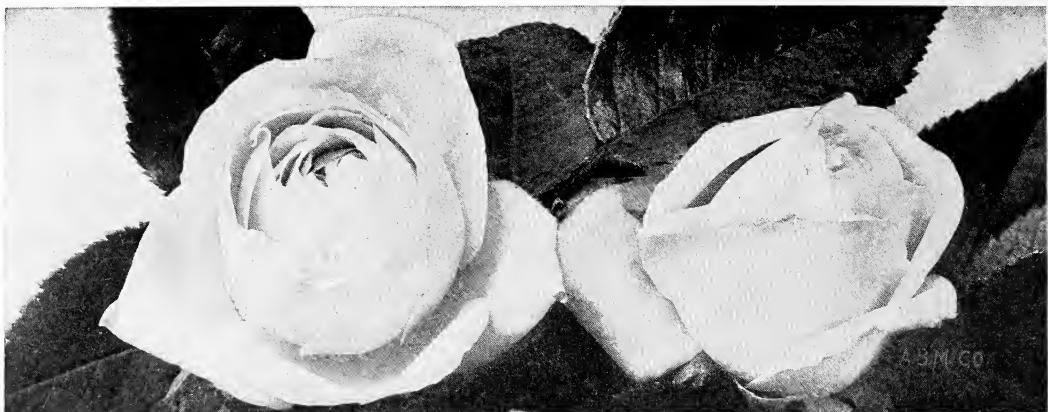
### Spireas

### Tartarian Honeysuckle

(For description of above see index for pages.)



Rose Hedge



## Roses

Among all the flowering shrubs that make for beauty, grace and ornamentation, there is none that can compare with the Rose. The wide range of color, shape and size of the blooms and the diversity and character of the foliage gives it a wider range for decoration than any other single group of plants. When added to these qualifications are ease of culture, quick and ample response in blossoms, it is not to be wondered at that the Rose has been aptly termed the "Queen of Flowers." In nearly all collections of flowering and ornamental shrubs it occupies first place.

### CULTURAL DIRECTIONS

Roses thrive best in a clay loam enriched with well-rotted manure. They should also have an open, airy situation unshaded by trees or buildings wherever possible. Dig up the soil thoroughly to a depth of 12 to 15 inches. Soak the beds occasionally with weak manure water.

Roses delight in an open, airy situation, unshaded by trees and buildings. Always plant in solid beds and each class by itself. Hardy Roses may be planted in the fall or spring, but for this latitude we recommend spring planting. Dormant plants set in the spring should be planted early, before growth is started. No plant suffers more by being planted late than does the Rose.

As Roses are raised mostly for their flowers, it is necessary to give that culture to the plant best adapted to produce this result. A very rich soil is of the first importance, and it must be made so by thoroughly working into it plenty of old composted stable manure in which leaf mold has been decomposed.

All Roses should be cut back closely at the time of planting. For Hybrid Perpetuals remove at least one-half of the previous year's growth annually in the spring. In the Ever-blooming class, two-thirds of the previous year's growth. Strong growing varieties require less pruning back than weak ones. As soon as severe freezing weather sets in, raise the earth around the plant 3 to 4 inches, with leaves, straw or mellow soil.

**Insects and Diseases**—It is very important to keep your plants healthy and vigorous and free from diseases and insects. If troubled with the green fly, spray vigorously, covering thoroughly every part of the foliage with sulpho-tobacco, soap or kerosene emulsion, made by mixing two parts of kerosene with one part of sour milk. Dilute with twenty parts of soft water.

Bordeaux mixture is one of the best preventives from mildew and black spots, which are fungous diseases usually caused by continuous wet weather. By careful attention the diseases and insects may be kept down and plants will reward you with their beautiful blooms and foliage.

### Hybrid Perpetuals

**Alfred Colomb**—Brilliant carmine-crimson; very large, full and globular shaped; very fragrant and a superb rose.

**Anne de Diesbach**—Beautiful shade of carmine; very large and fragrant; quite hardy and a good forcing rose.

**Baron de Bonstetten**—Rich, velvety maroon, large and full; a splendid sort.

**Baroness Rothschild**—Light pink; a fine show rose, but without much fragrance; hardy and a late bloomer.

**Captain Hayward**—Very large, bright carmine-crimson; vigorous and free flowering.



Alfred Colomb



General Jacqueminot

**HYBRID PERPETUAL ROSES—Continued.**

**Clio**—One of the best; large fine, globular form, flesh color, shading to rose in center; very vigorous.

**Coquette des Blanches**—A pure white rose, very beautiful; one of the best of the white sorts.

**Eugene Furst**—Velvety crimson, shading to a deeper crimson; large, full and good shape; fragrant and beautiful.

**Francois Levet**—A splendid rose; cherry-red; medium size, well formed; vigorous and a free bloomer.

**Frau Karl Druschi**—Very large, perfect form and snow white; a vigorous grower and a free bloomer.

**General Jacqueminot**—One of the most popular of the red roses; brilliant crimson, large and very effective, very fragrant and one of the hardiest.

**Coquette des Alps**—White, tinged with carmine; very fine; a free bloomer.

**General Washington**—Large, rather flat in shape, bright red with crimson shading; very free bloomer.

**Gloire de Lyonnaise**—A grand rose; a beautiful shade of pale salmon-yellow, sometimes passing to creamy-white; very fragrant.

**Gloire de Margottin**—Brilliant scarlet; large, semi-double, long bud; vigorous, fragrant and a free bloomer.

**John Hopper**—Bright rose with carmine center; large and full; very free bloomer and a standard rose.

**Jubilee**—A splendid, large flowering variety of intense color, bright maroon-crimson, often almost a black-red; very showy; fragrance very lasting.

**Jules Margottin**—Bright cherry-red, large, full and very fragrant.

**Louis Van Houtte**—Red, shaded crimson, very vivid; large and fine form; fragrant; one of the best.

**Mabel Morrison**—White tinged with blush; a very valuable white rose.

**Magna Charta**—Extra large and full, bright rosy-pink; a profuse bloomer and very hardy.

**Madame Gabriel Luizet**—Rich, soft pink with deep flesh colored center; large, full and sweet.

**Mme Charles Wood**—Very bright rich cherry-red; early; profuse bloomer.

**Marchioness of Londonderry**—Extra large, ivory-white; free flowering, very vigorous and hardy, delightfully fragrant; one of the best white sorts.

**Margaret Dickson**—Beautiful form, white with pale flesh center; petals very large; fragrant.

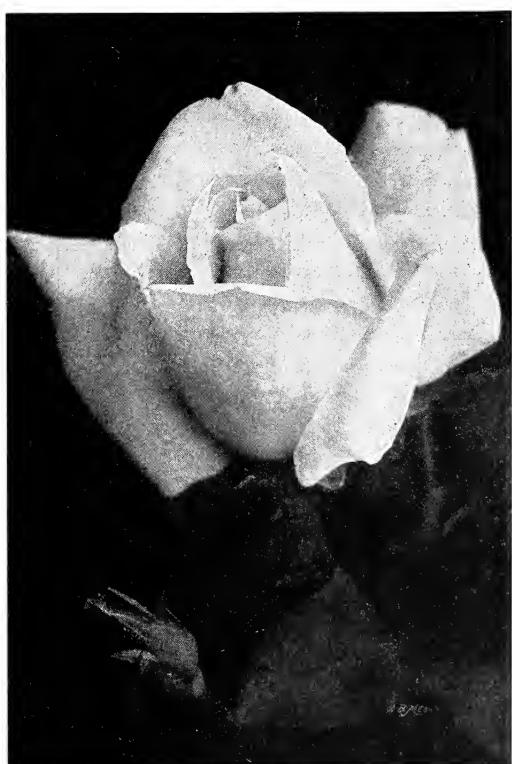
**Marie Bauman**—Brilliant carmine-crimson, large, full and very fragrant; extra fine.

**Marshall P. Wilder**—Extra large, full deep red; a free bloomer and very handsome.

**Mrs. John Laing**—Soft pink; beautiful form, exceedingly fragrant and free flowering.

**Mrs. R. G. Sharman-Crawford**—Deep, rosy pink, very double and full; vigorous and a free bloomer.

**Paul Neyron**—Said to be the largest rose in cultivation; bright, clear pink, very fragrant, hardy and a strong grower.



Mrs. John Laing

**Prince Camille de Rohan**—Very dark, velvety crimson, almost black, large and full; a beautiful sort.

**Soleil d'Or** (Sun of Gold)—A strong, hardy rose; large, full and double; golden orange-yellow tinged with red and rosy-pink; a magnificent rose.

**Silver Queen**—Lovely silver-rose, passing to delicate rosy-pink; delightfully fragrant and a free bloomer.

**Tom Wood**—Very large, bright cherry-red with shell-shaped petals.

**Ulrich Brunner**—Rich crimson-scarlet, highly perfumed, vigorous and hardy; a very desirable sort.

**Vick's Caprice**—A fine striped rose of great beauty; full, double and finely formed; deep, clear pink, striped with white; hardy and a good bloomer.

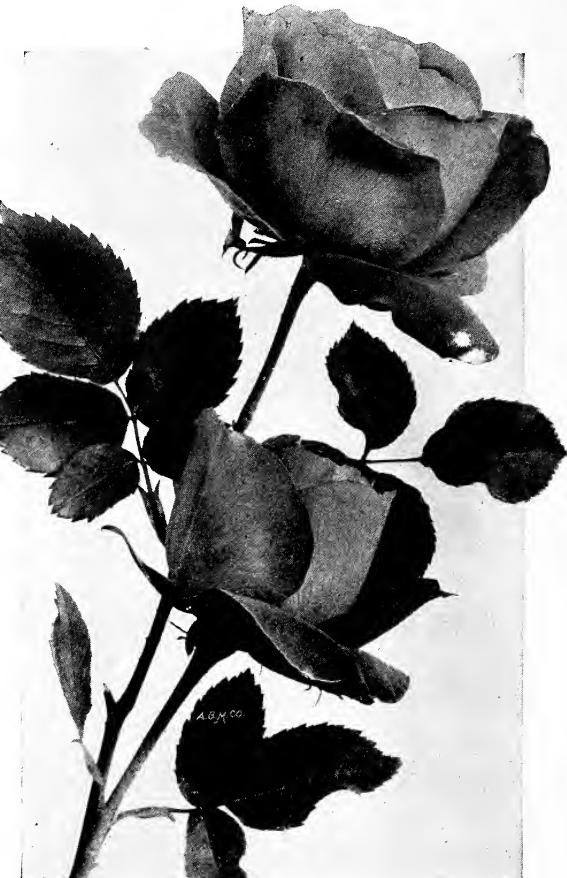
**Victor Verdier** (Climbing)—Bright rose with carmine center; a free bloomer but not fragrant.

### Climbing Roses

**Baltimore Belle**—A rapid growing, dark leaved Prairie Rose; blooms in large clusters of pale blush and white flowers late in the season.



Dorothy Perkins Climbing Rose



Ulrich Brunner

**Empress of China**—A hardy, rapid growing rose of twining habit; flowers are soft, rich red, shading to cherry-pink; the vines have few thorns.

**Multiflora Japonica**—Single white; fragrant; very pretty.

**Prairie Queen**—A rapid climber; flowers are very large; a bright rosy-red, changing lighter as the flowers open; strong and vigorous.

**Ruby Queen**—A great climber; perfectly hardy; flowers produced in enormous quantities; color rich ruby-red, with clear white center.

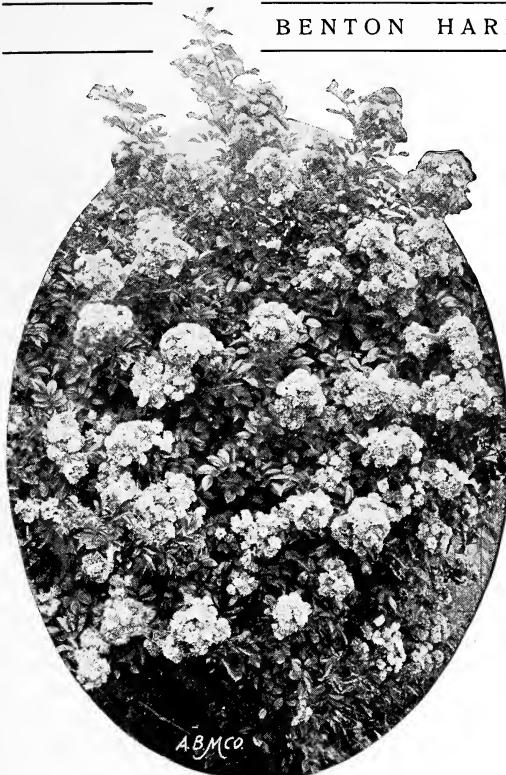
**Russell's Cottage**—A beautiful climber with flowers ranging in color from pink to deep crimson; full double and borne in large clusters.

**Setigera or Prairie Rose**—A climber that makes a beautiful display with its large single flowers of a deep rose color.

**Seven Sisters**—One of the best of the old-fashioned sorts; flowers borne in clusters and color varies from dark to light red or pink.

### Rambler Roses

**Crimson Rambler**—The best known and most popular of all the climbing roses. A rapid grower, making sometimes 15 to 20 feet in a season; flowers are borne in clusters of 15 to 25 perfectly shaped blossoms of a rich glowing crimson; when in full bloom the vine appears to be a perfect mat of rich red flowers; perfectly hardy everywhere.



Crimson Rambler Roses

## RAMBLER ROSES—Continued.

**Dorothy Perkins**—This is one of the new Rambler types; has the same strong habit of growth as the Crimson; flowers are borne in large clusters of 25 to 30, and are a beautiful shell pink; the individual flower is larger than the Crimson Rambler. A valuable acquisition to the climbing roses.

**Lady Gay**—Another new type fully equal to the Crimson; bud opens a deep pink, shading to almost pure white when flower is matured; borne in large clusters and very double.

**Philadelphia**—A splendid climbing rose with flowers more than two inches in diameter; very double, deep rich crimson, more intense than the Crimson Rambler; borne in large clusters completely covering the bush; the flowers hold their color for a long time; vine is very hardy and a strong grower.

**Pink Baby Rambler** (Annechen Mueller)—A fine pink, Baby Rambler Rose. Valuable for bedding.

**Pink Rambler**—Flowers are double, of a clear shell pink; borne in large clusters; a valuable rose for cutting.

**White Rambler**—Flowers are pure white; very double and remain on the vine a long time.

**Yellow Rambler**—Same as the pink, excepting flowers are a light yellow, changing to straw color; very fragrant.

## Hardy Everblooming Tea Roses

**The Bride**—One of the very best pure white ever-blooming roses; extra large, buds and flowers pure cream white, sometimes tinted with blush.

## Polyantha Roses

**Clotilde Soupert**—Flowers are borne in large clusters all over the bush; large, full and double; very fragrant; beautiful cream-white, tinged with amber at the center and clear, bright pink.

**Crimson Baby Rambler**—One of the best hardy bedding roses; vigorous, and grow 18 to 24 inches; flowers are borne in clusters of 20 or more to the cluster. Perfectly hardy and is good for pot culture for winter blooming. Color a bright crimson pink.

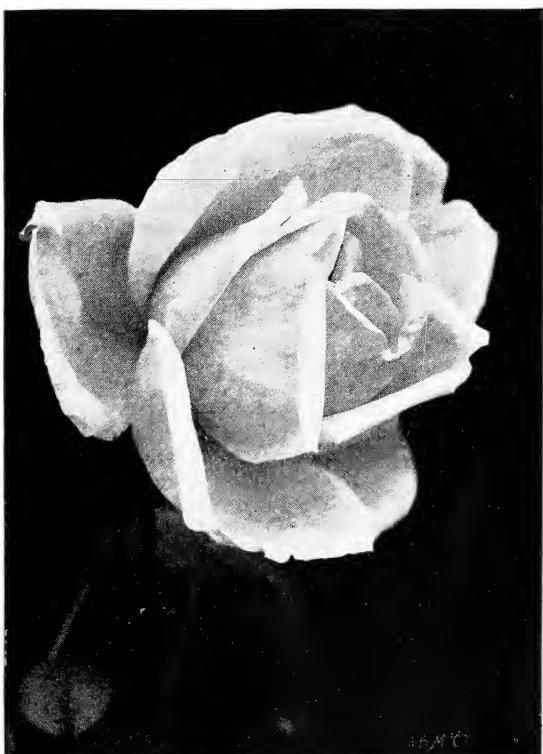
**Pink Soupert**—A new everblooming rose as beautiful as Clotilde Soupert, but deeper color.

**Pink Baby Rambler** (Anna Mueller)—Of the same free flowering class as the Crimson Baby Rambler. Blossoms a shade of deep rose, with petals curled and twisted, producing a fluffy effect. Hardy, vigorous grower and foliage is very beautiful.

**White Baby Rambler**—Blooms all summer and blossoms are produced in great abundance. Cream-white passing to snow white.

## Tree Roses

These are grafted on stems four to five feet high, forming a head that is somewhat tree-shaped. They may be planted in tubs, and make very ornamental additions to lawns, verandas, etc. Can be supplied in leading Hybrid Perpetuals, Crimson Rambler, Baby Rambler, etc.



The Bride Rose

## Moss Roses

**Blanch Moreau**—Pure white, large and full, perfect form and well furnished with deep green moss. Very strong grower.

**Captain John Ingram**—Dark velvety purple, large size, double.

**Countess of Murinais**—One of the best pure white moss roses. Flowers large, full and fragrant; a good bloomer.

**Crested Moss**—Deep pink colored buds, surrounded with a mossy fringe and crest; a very fragrant and beautiful variety.

**Glory of Mosses**—A moderate grower, flowers very large, color a pale rose.

**Henry Martin**—Medium size, flowers large and rosy-red, well mossed, fragrant.

**John Cranston**—Deep crimson; very double.

**Luxemburg**—Bright crimson, large and beautifully mossed.

**Princess Adelaide**—Extra large, flowers very double and sweet, color bright rosy pink; moss a bright green.

**Perpetual White**—Pure white with a nicely pointed burr. One of the most beautiful white varieties.

**Paul Fontaine**—Deep crimson; a constant bloomer.

**Salet**—A bright light rose, large and full. It sometimes blooms in the autumn.

## Miscellaneous Roses

**Harrison's Yellow**—Bright golden yellow, very hardy; fine for planting in groups; an early bloomer.



Crested Moss Rose

**Madam Plantier**—A pure white rose recommended for lawn and cemetery; plant does not winter-kill and is a strong, vigorous grower and an enormous bloomer.

**Persian Yellow**—Flowers a deep yellow, rather small, but borne in great profusion. Considered one of the best of the yellow roses.

**Rosa Rugosa** (var. *Rubra*)—A Japanese variety with flowers of a beautiful bright rose-crimson, single and succeeded by large berries of rich rosy-red. A good hedge rose. Very ornamental.

**R. (var. *Alba*)**—Same as above with exception flowers are pure white; very highly perfumed.

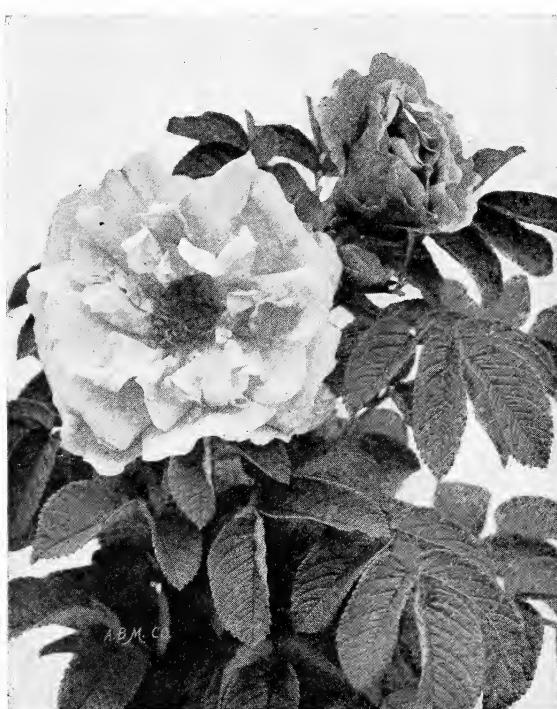
**R. var. *Agnes Emily-Carman***—Flowers semi-double and borne in clusters, bright crimson and a free and continuous bloomer.

**R. var. *Mad. George Bruant***—Flowers are borne in clusters, buds are semi-double, long and pointed, pure white.

**R. var. *Bland Double de Coubert***—Purest paper white, blooming in clusters of from five to ten flowers; double, very sweet; a strong, rampant grower, having the true Rugosa foliage. Flowers nearly 5 inches in diameter, produced freely and lasting well. Perfectly hardy.

**R. var. *New Century***—Flowers three to four inches across, full and double and borne in large clusters, color a clear flesh pink with bright red center. Has delightful fragrance of the Sweet Briar.

**R. *Rubiginosa* (English Sweet Briar)**—Very highly valued for the delightful fragrance of its young foliage as well as flowers, entirely hardy, and will take care of itself. Makes a fine hedge or is equally good for grouping or single specimens. Flowers are pink.



Rugosa Rose Mad. Geo. Bruant



A.B.M. CO.

Peonies in Border

## Herbaceous Peonies

That Paeonies are as fine and effective in their way as Rhododendrons or Roses is now very generally recognized. Herbaceous Paeonies are hardy, easily cultivated, are being used in the same way as Rhododendrons and Roses for a bold display of colors. We have a very choice list of all standard varieties and are constantly adding new varieties each year. We can furnish extra heavy plants, of large, free blooming varieties, in the following colors: Red, white, pink, rose color, yellow, variegated pink and white, purple, straw color.

## Hardy Phlox

No class of hardy plants is more desirable than the Hardy Phloxes. They will thrive in any position and can be used to advantage as a border, planted in large clumps on the lawn, or planted in groups of shrubbery, as they will be a mass of bloom the entire season. Our list of Phlox has been selected from the best varieties known and comprise all the standard colors, such as red, pink, white, pure white with large crimson center, salmon color.

### DWARF PHLOX

**Phlox subulata.** Moss pink.

**Phlox subulata, var. alba.**

## Hardy Perennial Plants

As these yearly come into more plentiful use, we have enlarged our list to meet the popular demands. Catalogue space is too small to enable us to list the entire varieties we grow. Write us for list and special quotations on any perennials wanted. We have a full list of all Hardy Perennial Plants, including Achillea, Anemone, Aquilegia, Hardy Asters, Delphinium, Digitalis, Coreopsis, Eulalia Grasses, German Iris, Japan Iris, Yucca, Tritoma, etc.

## Hardy Bulbs

We have a full and complete assortment of all standard varieties of Dutch Bulbs for fall planting, including the best varieties of Crocus, Hyacinths, Lilies, Narcissus and Tulips. Special list sent upon request.



A.B.M. CO.

Hardy Phlox

# Spring Flowering Bulbs

Tulips, Hyacinths, Narcissus, Crocus, Snowdrops and other spring blooming bulbs should be planted in the fall and will bloom gloriously before other flowers the following spring. They can also be planted in pots and window boxes in the house and will be in bloom while ice and snow hold sway out-doors. Nearly all the lilies and irises should also be put in the yard in the fall. Once planted all this class of plants become permanent, and require but little attention beyond fertilization and a little cultivation.

We can supply these bulbs in the following classifications:

## Tulips

**Single Early** in mixture.

**Single Early** in white, pink, yellow, red and striped.

**Double Early** in mixture.

**Double Early** in white, pink, yellow, red and striped or otherwise colored.

**Single Late** in mixtures and all the above colors. Late or May Flowering tulips are the most popular of all the tulips.

**Parrot or Dragon Tulips** in white and all shades of yellow and reds and stripes.

## Hyacinths

**Single Dutch** in mixture.

**Single Dutch** in separate colors; white, blush, rose, red, blue, purple, yellow and orange.

**Double Dutch** in mixture.

**Double Dutch** in separate colors; white, blush, rose, red, blue, lavender, purple and yellow.

**French Roman** in mixture.

**French Roman** in separate colors; white, blue, light pink and dark pink.

## Daffodils or Narcissi

**Large Trumpet** in mixture.

**Large Trumpet** in all yellow, all white and bicolors.

**Incomparabilis** in mixture.

**Incomparabilis** in white, yellow and bicolors.

**Poeticus** in mixture, also in separate kinds.

**Jonquils** in mixture, also single and double.

**Poetaz** in mixtures; also in separate colors.

**Polyanthus Narcissi** in mixture and in separate kinds.

**Double Narcissi** of various kinds.

**CROCUS**—in mixtures; also in separate colors.

**SNOWDROPS**—in mixture; also single and double separate.

## Lilies

We have various kinds; all the most popular varieties, such as Harrisii, Lolinum, Giganteum, Candidum, Formosum, Auratum, Speciosum, Elegans and Canadense.

## Irises

**German** and **Japan** varieties in separate colors.

**English Iris** in various colors.

**Spanish Iris** in various colors.

**Lily of the Valley**, **Oxalis**, **Gladiolus**, **Freesias**, **Ixiias**, **Amaryllis** and other flowering bulbs in stock.



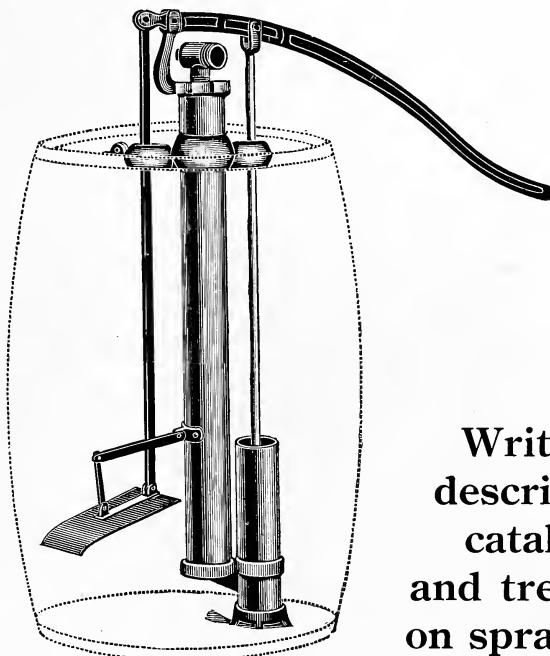
Tulip Planting

# YOU TAKE NO CHANCES

When You Buy An

# Eclipse Spray Pump

They  
Have  
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The  
Test  
For  
Years



Write for  
descriptive  
catalogue  
and treatise  
on spraying.

**MORRILL & MORLEY**  
**Mfg. Company**

Benton Harbor, - - - Michigan

In selecting your trees for planting you were very particular to secure only the highest grade and best varieties. Why then should you not be as careful in selecting the chemicals for their treatment?

## **DOW SPRAY MATERIALS**

**Have an Established Reputation for Quality**

In making them we never lose sight of quality and it is unwise economy to think that the cheapest is always the best. Write us for prices.

**THE DOW CHEMICAL CO.  
MIDLAND, MICHIGAN**

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Amaryllis . . . . .	46	Gleditschia . . . . .	25	Privet . . . . .	35
Ampelopsis . . . . .	37	Golden Bell . . . . .	33	Prunus . . . . .	27
Amygdalus . . . . .	31	Gooseberries . . . . .	20	Purple Fringe . . . . .	34
Apples . . . . .	4, 9	Grapes . . . . .	17, 18	Pyrus . . . . .	24, 28, 39
Apricots . . . . .	19	Gymnocladus . . . . .	25	Quercus . . . . .	27
Arborvitae . . . . .	29	Hackberry . . . . .	25	Quinces . . . . .	18
Aristolochia . . . . .	37	Halesia . . . . .	33	Raspberries . . . . .	21
Ash . . . . .	24	Hedera . . . . .	38	Red Bud . . . . .	27
Ashberry . . . . .	34	Hedge . . . . .	39	Rhamnus . . . . .	32
Asparagus . . . . .	22	Hibiscus . . . . .	31	Rhododendron . . . . .	39
Azalea . . . . .	31	Honeysuckle . . . . .	33, 38	Rhubarb . . . . .	22
Barberry . . . . .	31, 39	Hyacinths . . . . .	46	Rhus . . . . .	34, 35
Beech . . . . .	24	Hydrangea . . . . .	33	Ribes . . . . .	32
Begonia . . . . .	37	Ixias . . . . .	46	Robinia . . . . .	26, 31
Berberis . . . . .	31, 39	Irises . . . . .	46	Rosebay . . . . .	39
Betula . . . . .	24, 28	Japan Quince . . . . .	34, 39	Rose of Sharon . . . . .	31
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Blackberries . . . . .	22	Kentucky Coffee Tree .	25	Salisburia . . . . .	28
Boston Ivy . . . . .	37	Kerria . . . . .	34	Salix . . . . .	28
Box . . . . .	39	Koelreuteria . . . . .	25	Sambucus . . . . .	32
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Buxus . . . . .	39	Ligustrum . . . . .	35	Silk Vine . . . . .	38
Calycanthus . . . . .	32	Lilac . . . . .	34	Silver Bell . . . . .	33
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Celastrus . . . . .	37	Linden . . . . .	25	Snowberry . . . . .	35
Celtis . . . . .	25	Liriodendron . . . . .	28	Snowdrops . . . . .	46
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Cercis . . . . .	27	Lonicera . . . . .	33, 38	Spiraea . . . . .	36
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Chionanthus . . . . .	36	Madeira Vine . . . . .	38	Sumach . . . . .	35
Cinnamon Vine . . . . .	37	Magnolia . . . . .	26	Sweet Pea Shrub . . . . .	32
Clematis . . . . .	37	Mahonia . . . . .	34	Sweet Scented Shrub . . . . .	32
Colutea . . . . .	32	Maiden Hair . . . . .	28	Sycamore . . . . .	28
Corchorus . . . . .	34	Maple . . . . .	26	Symporicarpus . . . . .	35
Cornus . . . . .	24, 32	Matrimony Vine . . . . .	38	Syringa . . . . .	34
Crab . . . . .	24	Meadow Sweet . . . . .	36	Tamarix . . . . .	36
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*In Addition to Fruit Trees and Ornamentals we also carry in stock*

Farm implements, power sprayers, hand pumps, wagons, sleighs, harnesses, gas engines, buggies, cutters, blankets, robes.

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*In Fact Everything for the Farmer and Fruit Grower*